

# AMERICAN RAILROAD JOURNAL. ADVOCATE OF INTERNAL IMPROVEMENTS.

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D. K. MINOR, EDITOR.]

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SATURDAY, DECEMBER 7, 1833.

[VOLUME II.—No. 49.

### AMERICAN RAILROAD JOURNAL, &c.

NEW-YORK, DECEMBER 7, 1833.

We would call attention to the advertisement on the last page of this number of the Journal, of the American Steam Carriage Company of Philadelphia.

BALTIMORE AND OHIO RAILBOAD REPORT .-We are indebted to P. E. THOMAS, Esq. President of the Company, for one copy, and to an unknown friend for a duplicate, of the seventh annual report of the proceedings of this company, a part of which will be found in this number of the Journal. It will be continued in our next, together with such of the accompanying documents as we may deem of general interest. We have also received a report of the committee of the Charleston Railroad Company, on Cars, which will be noticed in our next.

PATERSON RAILROAD OPENING .- We regret having been unable to accept of the polite invitation from the President of the Company to attend the opening to Bergen, on the 29th ult., of the Paterson and Hudson Railroad. We, however, copy from the New-York American an account of the event, and shall take the earliest opportunity of visiting it, and again refer to it more at length. We cannot, however, omit to call attention to the bridges, a description of one of which we take from the New-York American. It was built, we understand, by ty at the first opening of the books previous to the survey of the route, amounted to 217 shares; so that the whole which has been taking place every year. From two ports in Middle Florida, St. Marks and Magnothe survey of the route, amounted to 217 shares; so that the whole which has been taken in this country now amounts to 1432 shares, and Providence, and the Boston and Worcester or \$71,650."

mend Mr. Hassard to the notice of those who desire to construct works of a similar character.

"The bridge over the Hackensack, which is 1700 feet long, and which traverses the river diagonally, received and sustained the cars, travelling at a round trot, as solidly as the earth itself; so well and securely is it braced cravelling at a round trot, as solidly as the earth itself; so well and securely is it braced in all its parts, and yet presenting to the eye a structure remarkable for lightness of appearance. The draw—the first level one we remember to have seen—is most ingeniously contrived. When the passage is to be opened, a moveable platform of equal length with the draw, and constituting part of the road, is made to slide aside, and the draw takes its place. The machinery for effecting this is so simple, that a single man can do the whole. The draw in the bridge over the Passaic is lifted in a single piece; and as that is necessarily very heavy, being near thirty feet long, and of strong and well secured timbers, it would seem to require no trifling mechanical force to move it; yet, by means of a weight duly calculated, connected with the chains by which the draw is raised, but suspended at such a distance form the fulcrum as-to furnish, as the bridge rises, a counterbalancing force to its weight, the whole mass is raised by a single man turning an ordinary orank."

RALEGAD MEETING.—The Dayton Journal Ralegal at a consideration the propriety of establishing a turnpike from Syracuse to the village of Pulaski, William Ford, Esq. was called to the chair, and Edward M. Fitch appointed secretary. On motion of H. Fitch, it was resolved, That a committee, to consist of N. I. Roosevelt and Miles Hotchkiss, Central Square; John Leach, jun., Cicero; Erasmus Stand, and Benj. F. Williams, Salina; Elam Lynds and M. D. Burnet, Syracuse; Avery Skinner, Union Square; Hiram Hubbell, and L. D. Mansfield, Pulaski,—be appointed, whose duty it shall be to inquire into the practicability of constructing the above-mentioned road, and to take such measures as they may deem expedient to facilitate the object, and to make such report at the bridge rises, a counterbalancing force to its weight, the whole mass is raised by a single man turning an ordinary orank."

RESolved, That said meeting adjourn to meet again at said place on Tuesday, December

says "We were highly gratified at witnessing the interest manifested by our citizens on the subject of railroads, at the meeting on Wedeven surpassed our hopes. The books were A committee of gentlemen were then named, tisfy. to call personally upon such citizens as had not subscribed at the meeting, and receive their

railroads. They are constructed upon the plan patented by Colonel Long, of the United States Army, a gentleman to whom this country is indebted for many important discoveries and inventions. We are promised a more particular description, with drawings of these bridges, which we shall take pleasure in laying before our readers; and we most cheerfully recommend Mr. Hassard to the notice of those who wrinkle so deep and so disgusting as the time-honored wrinkle between Pulaski and Syra-cuse. Every one will rejoice, therefore, that her ladyship's face, in this matter, is about to be overhauled and improved.

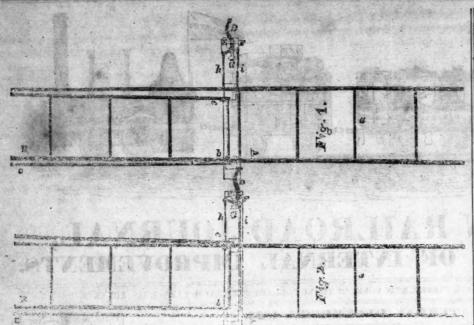
be overhauled and improved.

At a general meeting held at Central Square, Oswego co. on Saturday, November 9th, 1833, to take into consideration the propriety of establishing a turnpike from Syracuse to the village of Pulaski, William Ford, Esq. was called to the chair, and Edward M. Fitch appointed secretary. On motion of H. Fitch, it was resolved, That a committee, to consist of N. I. Roosevelt and Miles Hotchkiss, Central Square; John Leach, jun., Cicero; Erasmus Stand, and Benj. F. Williams, Salina; Elam Lynds and M. D. Burnet, Syracuse; Avery Skinner, Union Square; Hiram Hubbell, and L. D. Mansfield, Pulaski,—be appointed, whose duty it shall be to inquire into the practicability of constructing the above-mentioned road, and to take such measures as they may deem expedient to facilization.

RAILROAD MEETING.—The Dayton Journal 3d, 1833.

Why a turnpike? Why not a railroad at once? As there must be a railroad within a few years, why not commence it at once ? It is nesday evening. It equalled our wishes, and better to appropriate every dollar towards such a work as will be of lasting utility, than to conopened for subscription, and before the meet-struct a turnpike now, and then a railroad hereing adjourned, 811 shares were subscribed for. after. Nothing short of a railroad should sa-

Cotton in Florida. - By a statement in the last Flosubscriptions, and 405 additional shares have ridian we perceive that a great increase in the probeen taken. The stock subscriced in the cound duction of cotton is taking place every year. From



Plan for Railroad Turnouts. [Communicated] rance to the flange of the wheels, and by by the Inventor for the American Railroad Journal, and Advocate of Internal Improve-

The advantages that this plan of turnout has over the various plans now in use consists in the great diminution of curvature, viz. instead of moving the portable end of the bars, A A, sufficiently to form a connection with the double track, which must be sufficient to give clearance to the flange of wheels between the rails, as in the present mode, the rails A A move only one inch, and, as per description of diagram, one rail of the turnout and one of the single track move alternately into its place, to form the required connection with the bars A A, and out of its place to give clearance to the On the Practical Effect of Undulating Rail. flange of wheels; the objection to the bars b and c being loose at one end is overcome by the wheels taking a bearing upon the permanent rail of the track, laying alongside of and

A A are the portable bars, or switches, on the single track; B B are bars of the same track; and C C are the bars terminating or commencing a double track. A A connects by means of cross rods a a a a, b c are connected by cross rods, and are portable at one end in like manner to A A; the cast iron arch G, the levers D E, and the vertical shaft F, are the apparatus for working the different bars by means of the connecting rods hi. It may be necessary to mention that E is a double lever, and the proportion from F to either end is as one is to three. b and c compose one bar of each track, and are connected to the long end of the lever E by the connecting rod h. A A form bars of both tracks according to their different positions, and are connected to the short end of the lever E by the connecting rod i. It will readily be perceived by a reference to the diagram that, by moving the lever D, fig. 1, in the position of D, fig. 2, D and E being both permanently fixed upon the vertical shaft F, which passes through the cast iron arch G, you will move tion are in motion upon straight inclined

moving the lever D in the position of fig. 1, you bring A A back in their original position; you move b against the bar C in its working position, and move c out of its place to give clearance to the flange of the wheel. The bars A A have been calculated in the diagram to diverge one inch from a straight line, and by running the same curvature regularly from a tangent, the permanent end of the bar c, or C C, will diverge four inches from a straight line, that is, calculating the bars to be 161 feet long by 2 inches wide, and will give 2 inches clearance for flanges of wheels and a curvature of a fraction over 2° 15'.

ways. By J. S. VAN DE GRAAFF. [To the Editor of the American Railroad Journal, and Advocate of Internal Improvements.]

Sir.—In several recent numbers of your Journal I have observed a controversy, taken from the London Mechanics' Magazine, upon the subject of undulating railways. To determine the motion of an ordinary car, when propelled by any given moving power, upon a given inclined plane, agreeably to the received laws of gravity and friction, is a problem strictly determinable by analytical computation, and it is a little extraordinary that such a subject should have remained so long a matter of dispute, and referred at last to experiment for decision. The object of the present article is to deduce such results from the mathematical principles of natural philosophy, as will easily guide the engineer to a correct jndgment of the practical effect of such a railway; and in order to avoid all those disputes which have arisen from the loose and unscientific method of reasoning hitherto given upon this subject, I must begin by demonstrating the theorems upon which the decision of the question will depend. THEOREM I.

When railroad cars of the usual constructhe bars A A to connect with the double track, and at the same time move the bar c into its proper place, which, being connected with the bar b, is drawn out of its place, to give clea

their axles, will vary in the direct ratio of the cosines of the inclinations of the planes; the weight of the cars and all other things being equal.

For in ordinary railroad cars there is no rubbing surface intervening between the point where the moving power is applied, and the point where its action takes effect upon the load; and, therefore, when such cars are drawn upon an ascending plane, the nominal pressure is that alone which is subject to any rubbing friction at the axle, with the exception only of the small force required in giving motion to the wheels and axles themselves. And in like manner the same thing may be shown to be true when the car is descending by the force of gravity, or ascending by the force of inertia; and hence the only sensible friction at the axles, in every case, will be that which arises from the normal pressure alone, and which will be proportional thereto. But the normal pressure varies as the cosine of the inclination of the plane: see Courtney's Treatise on Mechanics, art. 265, "therefore, when railroad cars of the usual construction," &c. &c. Q. E. D.

Cerol. 1. And hence the friction at the axles will offer a reduced resistance to a moving power when the car is situated either upon the ascending or descending plane; but the horizontal and undulating ways are upon perfect equality as far as the accelerative force of gravity is alone connected, and it therefore follows, that any moving power considered separately from the effect of gravity, will act upon the undulating line with an effect greater than upon the horizontal line, in the given ratio of radius to the cosines of the inclination of each plane.

Corol. 2. But agreeably to the principles of trigonometry, the cosines of all arcs near the commencement of the quadrant will differ but little from radius, and the utmost practical limit of inclination must for many reasons fall within these arcs; and it therefore follows that the available reduction of friction by means of an undulating road cannot be of any practical utility in transporting upon railways. It would require an inclination of 25° 50½ to reduce the friction at the axles even one-tenth part less than upon a horizontal road; and such an inclination it is very well known would be attended with difficulties in the practical use of the road, which would be much more formida-ble than the friction at the axle itself.

Scholium. The above reasoning will obtain in reference to cars of every description when they are made to ascend a plane by the force of inertia only. But when a car is made to ascend a plane by a force different from inertia, it becomes necessary particularly to discriminate the points where the power is first applied, and where it takes effect upon the load; and it is a neglect of this consideration which has led into error a writer whose signature is S. D. page 674, of this Journal, when he sup-poses the friction at the axle to be a different quantity when the car is ascending and descending. All that is here said must be understood in reference only to cars whose construction is such as to give no rubbing surface in-tervening between the point where the power is applied and the point where its action takes place upon the load. The ordinary railroad car is of this description. But it will be easy to see that, with respect to a locomotive engine car, the case will be very different as far as the axle of the propelling wheels is concerned; for the friction of the bearings of the axle will be

upon the plane.

In connection with the subject of undulating railways there remains yet another principle to be considered. That is, the whole effect of the reduced friction of the axle upon the straight parts of the planes, as explained in the preceding theorem, will not be in all cases retained in passing the concave surface connecting the two planes; for unless the velocity of the car upon the curve be below a certain determinate limit, the whole quantity of motion destroyed by friction, in passing over the whole length of the curve, will exceed the quantity which would be destroyed in moving over the corresponding distance upon the horizontal road. This I now proceed to demonstrate.

THEOREM II.

When descending and ascending straight planes are connected together by a given con-cave circular surface: I say the motion of a car in passing from the descending to the ascending plane, will be impeded by an increase of friction at the axle, which will be in a direct duplicate ratio of the velocity of the car.

For, the increase of friction at the axle will be proportional to the increase of pressure upon it; but the centrifugal force upon the curve is a normal pressure, which varies in a duplicate ratio of the velocity. Therefore when descending and ascending straight planes, &c. &c. Q. E. D.

Corol. 1. It therefore appears that the friction at the axle of the arc, when situated in the middle of the connecting curve, will be greater than the friction at the axle when the car moves upon horizontal rails, and this will be more the case as the car moves with greater

Such are the principles which must guide the engineer in an investigation of the effect of the proposed system of undulating railways. And in order to determine under what circumstances the ultimate amount of power consumed by friction upon the two planes and in-termediate curve, is greater or less than the whole amount consumed by friction in moving over the corresponding distance upon the horizontal road, it would be necessary to enter into a minute analytical investigation of the circumstances under which the quantities of motion destroyed by friction in the two cases are equal. The principles of the differential and integral calculus will lead to this investigation without difficulty by means of the theorems given above, and which, therefore, for the sake of brevity, I may omit, for the results already given are sufficient to show that a material reduction of friction cannot be obtained by the undulating plan of construction, without using planes whose inclinations are altogether inadmissible in the practical use of railways.

Although the chief object of the above investigation was an inquiry into the effects of an undulating railway, yet it may be observed, that by means of the principles here demon-strated, it will be easy to deduce more accurate formulas for determining the amount of power required in moving railroad cars up an inclined ine, than has hitherto been given by Mr.

Wood, and other writers.

Very respectfully,

J. S. Van De Graaff. Lexington, Ky. Nov. 15, 1833.

Seventh Annual Report of the President and Directors to the Stockholders of the Baltimore and Ohio Railroad Company.

city of Fredieck. Between the last named do not perceive that more will be paid than sufplace and Baltimore, there had been, with but few interruptions, a transportation of persons and merchandize, from the 1st of December, road which the Canal Company have underta-1831; and from the Point of Rocks to Balti-more, the transportation had commenced on the 1st of April, 1832. The experience which the construction and use of the road had af-forded when the Sixth Annual Report was made, justified the Board of Directors in assuring the Stockholders of their entire confidence the final success of the work. The practicability of applying steam power profitably, for the purposes of general transportation, had been satisfactorily ascertained; the efficiency of the railroad system, in the particular district of country, had been put beyond all doubt; and new sources of revenue to the Company, not contemplated by the original projectors, had been fully developed as the adjacent quarries were opened, and the forest felled, and the railroad was employed in the transportation of their respective products. Under these circumstances, there was evident cause for congratulation upon the results that had so far been obtained: but the Board saw that much was still to be done before those pecuniary advantages could be realized to the Stockholders that had originally anticipated, and the postponement of which, had, even now begun to create feelings of disappointment in the minds of many of the friends of the scheme.

Three objects, in particular, called for the immediate attention of the Board of Directors at the commencement of the official year, that has justended. 1. The extension of the Railroad to Harper's Ferry. 2. The construction of the lateral Railroad to Washington; and 3. The perfection of the application of steam power for the purposes of transportation, together with the subject of machinery generally. All of these, it was considered, were most closely connected with the pecuniary interests of the Stockholders, and the detail of what has been accomplished in regard to them will occupy

the largest portion of their present report. 1. The Extension of the Railroad to Har-per's Ferry.—The Stockholders are already familiar with the particulars and result of the long pending controversy between the Railroad and the Chesapeake and Ohio Canal Companies, for the right of way upon the left bank of the Potomac. The decision of the Courts in the Potomac. favor of the latter corporation was followed by tedious negotiations, which partook, at first, perhaps of the feelings that had grown up during the legal proceedings, and which brought the parties again into collision before the Legislature of Maryland, their common parent Time, however, and a better and more correct view of their true interests than had before been taken, led ultimately to a compromise, by which the Canal Company undertook, upon the payment by the Railroad Company of the sum of \$266,000, in monthly payments, to construct the Railroad along all the difficult passes be-tween the Point of Rocks and Harper's Ferry. The payments and the construction have both been commenced by the respective parties; the whole length of the road between the two places has been advantageously located; and there is every reason to believe, should no unfavorable circumstance arise to retard the work, that, by the first of January, 1835, it will be completed to Harper's Ferry. The arrangement thus made was one which, under all circumstances, was unavoidable; and it is with gratification that the Board are enabled to inform the Stock-

upon a horizontal road, which requires a force also been finished from the Monocacy to the those which have been acceded to, the Board of traction equal to the gravity of the engine city of Fredieck. Between the last named do not perceive that more will be paid than sufken to do, and the loss and damages to which the Canal must, while such construction is going on, necessarily be subject; certainly not more than the Railroad Company must have paid, had they undertaken the independent conthe Railroad Company, the advantages to be expected on reaching Harper's Ferry were such as to render the continuation of the road to that place a matter of primary importance, demanding every effort to accomplish it. The Winchester and Potomac Railroad, about thirty winchester and Potomac Kanroad, about timey miles in length, and terminating at Harper's Ferry, promised to transfer to the Baltimore and Ohio Railroad, to be conveyed to Baltimore, a great share of the produce of the rich valley of Virginia, which then found an outlet in other directions. Winchester itself, a large, thriving, and enterprizing town, would be brought into the closest connection with Baltimore, to the mutual advantage of both cities. Staunton, one hundred miles from Winchester, in the same great valley: the intervening distance admirably adapted to the construction of a Railroad, would, in all probability, soon become another point in the line of railway communication, under a charter already in existence; nor was it anticipating too much, to believe that, thus progressing through the individual enterprize, from point to point, the prolonga-tion of the Baltimore and Ohio, and the Win-chester and Potomac Railroads, would either continue south westwardly to the cotton growing districts of Tennessee, intersecting the proposed James River and Kenawha Railroad, or passing through Jenning's Gap, find its own way to the tributaries of the Ohio, completing, in either event, the great scheme of a union, by railways, of the waters of the Atlantic sea board with those which empty themselves through the Mississippi into the Gulf of Mexico. In the meanwhile, it was known, that Virginia was engaged in making an excellent road from Winchester, direct to Parkersburg, at the mouth of the Little Kenawha, on the Ohio, which, uniting with the Railroad at Winchester, would turn the tide of western travelling into that direction, and extensively attract to the Baltimore and Ohio, and the Potomac and Winchester Railroads, the transportation of persons and merchandize, as well as produce, which then went in other channels. Besides the advantages thus held out by the valley of the Shenandoah, on the completion of the Railroad to Harper's Ferry, it would be, at that place, in such close proximity to the Valley of the Conococheague, as to render a connection with the latter, and through it, with some of the most fertile parts of Pennsylvania, a matter of easy attainment, by which a still further amount of transportation would accrue to the road, with but small additional expense necessary to accommodate it, and which would increase the profits of the Stockholders. In addition to which, the Railroad Company, at Harper's Ferry, would still be upon the line of western communication, originally contemplated by the Valley of the Potomac, whenever circumstances made it expedient to advance in that direction. Nor, while a part of the advantages have enumerated were negatived by the actual here enumerated were secured by the actual construction of the Potomac and Winchester Railroad, and the turnpike to the Little Kens wha, were the rest of them either improbable In presenting to the Stockholders of the Baltimore and Ohio Railroad Company, their Seventh Annual Report, the Board of Directors deem it proper to refer to the situation of the Company's affairs at the date of their late communication. On the 1st of October, 1832, when that communication was made, the main stem of the road had been completed, with two tracks as far as the Monocacy river, and with a single track to the Point of Rocks on the Potomac; a lateral road with a single track to the Point of Rocks on the Potomac; a lateral road with a single track had that they have discharged one of the most im-

(To be continued.)

[From the New-York American of Nov. 30.]

OPENING OF THE NEW YORK AND PATERSON RAIL BOAD .- Yesterday, the route of this road, which is now complete from Paterson to the Bergen Ridge, was threwn open, and traversed by a large party in. vited by the directors of the company to witness the successful accomplishment thus far of their labors. Leaving Powles Hook about half past nine o'clock in stages, we were rapidly conveyed to the ridge, distant about two miles and a half, where cars drawn by horses were in waiting. In and on these--for they are constructed to carry outside as well as inside passengers-the party, reinforced by many gentlemen of New Jersey, who there joined them, proceeded leisurely, that is at the rate of about ten miles an hour, along the road. It passes for about five miles over the Newark salt marshes, above which it is raised upon an average four feet, until after passing Berry's creek, when it begins to ascend at the rate of thirty five feet per mile, until the embankment reaches a height of eighteen feet. Great obsta cles have been overcome in constructing this road: first, the carrying such an immense quantity of earth; the uncertain bottom in many spots; the number of small creeks, in addition to two large rivers, to be passed; and therefore the necessity of bridging to a great extent, and in such way as both to preserve the requisite level and to obtain the firmness and solidity of structure essential to safety. In all these respects, the company appear to us to have fully succeeded. The bridge over the Hackensack, which is 1700 feet long, and which traverses the riv. er diagonally, received and sustained the cars, tra velling at a round trot, as solidly as the earth itself. so well and securely is it braced in all its parts, and yet presenting to the eye a structure remarkable for lightness of appearance. The draw-the first level one we remember to have seen-is most ingeniously contrived. When the passage is to be opened, a moveable platform of equal length with the draw and constituting part of the road, is made to slide neide, and the draw takes its place. The machinery for effecting this is so simple, that a single man can de the whole. The draw in the bridge over the Passaic, is lifted in a single piece; and as that is ne cessarily very heavy, being near thirty feet long, and of strong and well secured timbers, it would seem to require no trifling mechanical force to move it; yet, by means of a weight duly calculated, connected with the chains by which the draw is raised, but suspend. ed at such a distance from the fulcrum as to furnish, as the bridge rises, a counterbalancing force to its weight, the whole mass is raised by a single man turning an ordinary crank.

After stopping at, and examining, each of these bridges, the party pruceeded to Paterson, where they ent some very agreeable hours. Having visited the falls, which bappened to be even more picturesque than usual by reason of the high water in the river, they parcook of a collation at the office of the Company.

After the entertainment—we borrow the language of the Journal of Commerce-Mr. Daniel Jackson of N. Y., gave the health of the President of the Paterson Rail Road, which drew from the President, the Hon. Pa. Dickerson, a succinct statement respecting the enterprze which had just been completed. He said that somewhat more time and money had been expended than it was at first supposed would be neces

the distant part of the world from which the various materials were to be brought together, necessarily required time. The rails were to be procured from Georgia, some other materials from the interior of the State of New York and Canada, the iron from Liverpeol, the contractors from New England, the laborers from Ireland, and the money from the city of New York. On the whole, he thought there was reason for congratulation in reviewing the history of the enterprize. He concluded by giving "the City tures. of New York, the heart of our Country." Mr. Charles King, at the request of the New York Gentle. men present, made a few remarks in reply, and gave, "Paterson, here nature and art conspire to give to industry an ample reward."

We have been politely furnished by Colonel Long, with the following tables and explanations, showing the performance of engines of different capacities, on different grades, at different velocities and with different loads, which we submit to our readers without having had leisure to examine, or even to read them. They will, however, lose none of their value on that account, as the source from whence they come speed of 15 miles per hour, up an ascent of 35 feet will insure them attention. will insure them attention.

TABLE I.—Performance of a four ton engine on different grades, at different speeds, and with different loads,

State-	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11,
ments.	speed	level	5 ft	10 n	15 A	20 A	25 A	30 ft	35 A	40 ft	45 ft
	miles	tons.	tons					tons	tons	tons	tons
No. 1	slow		49 4	42	36 6	32 4	29	26 4		22 4	
100	10		24 7	21	18 3	16 2	14 5	13 2	11 0	10 4	10 3
119.2	15						12 1		10	9 3	
-11	20		16 5				97		8	7 4	9 9

TABLE II .- Performance of a five ton engine on different grades, at different speeds, and with different loads.

Stat	e-	1.	2.	3.	4.	5.	6.	7.	8.	9	10.	11.
men	ts.	speed	level.	5 ft	10 ft	15 ft	20 fi	25 ft	30 ft	35 N	40 ft	45 f.
No	1	miles	tons			tons	tons	tons	tons	tons	tons	tons
NO	5				27	23 4	20 8	18 6	16 9	15 5	13 8	13
	3	10		29 5		21 9						
	4					19 6						
	5	20	25 6	21 1	18	15 6	13 8	12 4	11 3	10 3	195	8 5

TABLE III .- Performance of a six ton engine on different grades, at different speeds, and with different loads.

State	e-	1.	2.	3.	4	5.	6.	7	8.	9.	10.	11.
men	ls.	speed	level.	5 ft	10 N	15 ft	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft
No.	1	mites									tons	
0	23	5	48	39 6 36 9	33 7	29 3 27 4	26 24 2	23 3	21 1 19 7	19 3	17 8 16 6	16 4 15 3
- Lys	4 5		40 32								14 8 11 9	

### Explanations of the Tables.

The computations exhibited in the foregoing tables, relate to the performance of engines of different weight, and to various other circumstances intimated in the titular heading of each table.

The vertical column, headed col. 1, exhibits the rate of speed in miles per hour for which the compu tations provide. The other columns headed col. 2, to col. 11, inclusive, exhibit the grade of the road, ascending, in feet per mile, together with the gross load expressed in tons and parte, that may be conveyed upward, at the various rates of speed presented in

statements are exhibited in series running from left to right, through all the columns of the ta-bles, and are numbered from 1 to 5 on the left of each table. The different statements relate to the different rates of speed exhibited in col. 1, varying from a speed of 2 to 3 miles per hour, which is designated in the tables as "slow," to a speed of 20 miles per hour.

or's Ferry, and in doing so, they believe tions had been found in the ground, over which the just mentioned, without regard to the condition of rails, and the wheels of the engine. This performance can only be expected when the road is in a condition to afford the requisite adhesion. With the steam power here contemplated, the wheels will be liable to slip on the rails, when the latter are covered with mud, frost, or snow; but in the best state of the road, such a performance may be effected.

The other statements exhibit the efficiency of the three classes of engines, which may safely be counted on, in all states of the road and weather, frost and snow excepted; it being always understood that the road must be well made, and free from abrupt curva-

An inspection of the tables will show the loads that may be drawn on a level road, at different rates of speed, as also, the loads that may be drawn upward on acclivities, and at different rates of speed, and by traversing either table diagonally, the approximate load that may be drawn on a road of various grades from a level, to 45 feet per mile, may be found; for example, let it be required to determine the load that may be drawn upward on a road varying in its grades, from a level to 45 feet per mile, by

an engine weighing five tons.

In Table No. 11, statement No. 2, and col. 11, we have 13 tons drawn upwards, at the rate of 5 miles per hour, on an ascent of 45 feet per mile. In statement No. 3, and col. 10, of the same table, we have 12.9 tons, or about 13 tons, drawn at the rate of 10 miles per hour, up an ascent of 40 feet per mile. In statement No. 4, cel. 9, we have the same load, at a little more than 13 tons, drawn at the rate of 20 miles per hour, up an ascent of 20 feet per mile. In the same table, we find in statement No. 1, col. 11th, that a five ton engine, when the road is favorable, is able to draw up an ascent of 45 feet per mile, 26 tons; and it may be readily inferred, that it is able to draw upwards on more moderate acclivities, the same load, at increased rates of speed,

By an inspection of Table III, it will appear, that a six ton engine is able to draw upward, on a road ascending, at the rate of 45 feet per mile, a gross load of nearly 33 tons at a slow speed, also that with nearly the same load, viz.: 32 tons, the engine is able to travel at a speed of 20 miles per hour on a level road.

It should moreover be remarked, that all the statements except No. 1, of each table, are considerably within the limits authorized by the power of adhesion between the wheels and the rails, even in the worst state of the road, frost and snow excepted.

The American Steam Carriage Company feel war-

ranted in assuring the public, and especially these companies or individuals who maw favor them with orders for Locomotive Engines, that the foregoing conditions shall be punctually complied with, and that the performance of their engines shall be equal to those exhibited in the tables herein contained

The subjoined testimonials will explain more fully the character and performance of the engines this company propose to build.

There is much truth in the following remarks from the Philadelphia Commercial Herald,-and unless the citizens of New-York arouse themselves, the "Empire State" will indeed pay heavy tribute to Philadelphia, and Baltimore.

PENNSYLVANIA .- In the hard march of Internal Improvements, which is daily producing such wonderful effects upon the prosperity of our country, Pennsylvania took the lead. Her distinguished citizen, Robert Morris, more than forty years ago, pointed out the advantages to be derived from this quarter, and projected nearly all the important improvements which the enterprize of a subsequent generation has now nearly completed. Induced by his argu-ments, Pennslyvania commenced a system of Canals, designed to connect the Delaware with the Susquehanna, the Ohio, and the Lakes, long before the subject of Internal navigation had been seriously thought of in any other state. But "the race is not always to the swift." The first experiments failed, because miles per hour.

The steam pressure or elasticity contemplated in works were more a novelty in our country than they are now, and he thought that those who were correctly informed, would now rather wonder that the road had been completed so soon, than that it had not been completed sooner. Some unexpected obstruction is sooned at the lowest rates of speed, is estimated at 33 1.3 per cent. of that pressure.

The steam pressure or elasticity contemplated in swift." The first experiments failed, because the effective force of which, in producing locomotion, at the lowest rates of speed, is estimated at 33 1.3 per cent. of that pressure.

The steam pressure or elasticity contemplated in swift." The first experiments failed, because they were in advance of the information, enterprize and resources of the times in which they were undertaken. Discouraged by this result, per undertaken. Discouraged by this result, per undertaken. Pennsylvania fell back from that leading position which usture had assigned her, and which

universally admitted and admired.

The success of this magnificent enterprize led Pennsylvania once more to reflect upon her internal resources, and to appreciate the permanent advantages of her natural position. She has again entered the glorious race of improvement, and has put forth her giant energies to secure the victory. Will not that victo-

Ty be hers?

An answer to this question is contained in the Toast which we remember to have heard from the lamented Clinton, on the occasion of the commencement of the Chesapeake and Delaware Canal. Speaking of the immense natural advantages of Pennsylvania, he de-Scribed her as resting "with her foot upon the Ohio, and with the other upon the great Lakes." To this he might have added,—that stretching her broad arm of the Susquehanna into the most fertile districts of the State of New-York, and holding in that hand the key of communication with the great Erie Canal, she has the means of rendering a large por-tion of the "Empire State" tributary to her wealth.

In Geographical advantages for securing the commerce of the Great West, Pennsylvania stands unrivalled. New-York has an admirable communication with the Lakes,—but her high northern position deprives her of its advantages during a large part of the year. Virginia, by the Potomac, may communicate with the Ohio,—but she wants a market on the sea-board, and has physical obstacles to encounter, certainly beyond her present re-

sources.

It is Pennsylvania only, which, by a single line of communication, developing a great portion of her internal resources, can embrace also the unbounded water communications of the Ohio, the Mississippi, and the great Lakes. This object is now on the verge of being ac-complished. Nine-tenths of the cost has already been incurred.

Let the system as originally laid out, including the improvement of the north branch of the Susquehanna to the New-York line, be completed, and the single addition of a connection with the Ohio Canal be made, and the hopes of the most sanguine must be realized.

The aggregate of tolls received from the Schuylkill, Lehigh, Union, and the unfinished State Canals, and from the west branch of Schuylkill, Little Schuylkill, Mount Carbon, and Germantown Railroads, for the present year, thus far has been \$725,000. Hence year, thus far, has been \$785,000. Hence some idea may be formed of the revenue the whole system will yield when completed.

INTERNAL IMPROVEMENTS .- We take the following account of the proceedings of a meeting of the inhabitants of the counties on the line of the contemplated canal, from Rochester to Olean. There appears to be a determination on the part of those residing near its contemplated route, to push it forward, and they will. we trust, succeedl; as we deem the construction of Canal and Railroad banks, when judicious ly and properly constructed, of far more importance to the country than banks of any other kind.

CANAL MEETING .- At a large and respectable meeting of the citizens of the counties of Cattaraugus, Allegany, Steuben, Livingston, Genesee, and Monroe, held at the court house, in the village of Geneseo, on the 20th day of November, 1833, for the purpose of adopting measures in furtherance of the construction of the Rochester and Olean Canal, with a branch will direct their course to Pittsburgh, where

to harmonize with the people of Allegany and other places along the line of the contemplated route of the canal, in the object prayed for in their several memorials, with the additional recommendation of a short branch to the village

of Dansville, by the valley of the Caneseraga. Resolved, That it is the deliberate opinion of this meeting, that since the construction of the Erie and Champlain Canals, no route has been designated, which, in its bearings on the great interests of the State, in the extent to which its influence will be felt, and the financial returns which may be reasonably calculated upon, can compare with that now under consideration.

Resolved, That we cannot reconcile it to our ideas of duty to ourselves, or the State we live in, not to manifest an interest in the busy movements of our enterprizing neighbors, Pennsylvania and Maryland, whose zeal and energy are untiring and unabated, and whose eyes are steadily fixed on the growing interests

of Baltimore, and Philadelphia. Resolved, That it be recommended to the several counties embraced in the object of this meeting, to call county meetings to provide the funds and send a delegate to the next Legislature, to further the general object of this meet-

Resolved, That James McCall, George Williams, and George Mills, in the county of Allegany; Emery Wood, Henry Bryan, and F. S. Martin, in the county of Cattaraugus; Benjamin Gardiner, J. P. Landon, and M. Stoddard, in the county of Genesee; D. H. Bissel, James Faulkner, and Eli Hill, in the county of Livingston; and A. M. Schermerhorn, F. M. Haight, and Powell Carpenter, in the county of Monroe, and Powell Carpenter, in the county of Monroe constitute a county Committee, in their respective counties, to promote the circulation of a memorial to the Legislature, and that such Committee be authorized to appoint sub-committees in the several towns in their several counties, for the same purpose.

Resolved, That the proceedings of this meeting be published in all the papers in the several counties interested in the contemplated Canal, and in the cities of New-York and Albany.

JAMES McCall, Pres't. P. C. Fuller, V. Pres't.

GEO. WILLIAMS, JAS. FAULENER, Secretaries.

WARREN, Nov. 21, 1833. CANAL CONVENTION.—This body (says the Western Reserve Chronicle) adjourned on Friday last, sine die, after a session of three days. We cannot often witness, in this section of the country, an assemblage embodying so great a

share of talents and acquirements, or represent-

ing so large an amount of capital. The deliberations were conducted with skill, promptness and dignity; and every fact, having any relation to the great object that occasioned this meeting, was, as far as practicable, elicited and investigated.

We can assure our readers, that the subject of forming an union between the Pennsylvania canals is now taken up in earnest; and we believe that our trade is about to be diverted to a mart more convenient, more natural, and more profitable, than that to which, for the last eight years, it has been artificially directed.

The delegates from the counties and cities of Philadelphia, Alleghany, and Pittsburgh, left here on Saturday, and were accompanied by several from Beaver, Trumbull and Portage,

New-York, under the auspices of her Clinton, soon after occupied.

The Grand Canal from the Hudson to Lake Erie was completed in spite of the deepest prejudice and the most persevering opposition, and no sooner was it opened, than the wisdom which had planned, and the patriotism which had carried it into successful operation, were universally admitted and admired.

to the village of Dansville; the Hon. James McCall, of Allegany, was appointed President; and George Williams, and James Faulkner, Esqs. were appointed Secretaries.

When the following resolutions were presented by the Committee, and unanimously adopted by the meeting.

Resolved, That the object of the meeting is to harmonize with the people of Allegany and the fortunate one, until it shall be completed to harmonize with the people of Allegany and the people of the fortunate one, until it shall be completed to harmonize with the people of Allegany and the people of the fortunate one, until it shall be completed. signate one of the three as the most feasible and as uniting the most advantages. This de-cision will probably be considered as final, by all the parties concerned; and we hope that thereafter the efforts of the people of Pennsyl-vania and Ohio will be unitedly exerted in favor of the fortunate one, until it shall be completed.

Nov. 13, 1833-11 o'elock, A. M. The convention was organized by Gen. Simon Perkins taking the chair, and the Hon. Wm. Rayen and R. P. Spalding, Esq. acting cretaries pro tem.

The objects of the meeting were explained y the chairman.

Gen. Abner Lacock was unanimously elect-d chairman: Zalmon Fitch, Esq. and Hon. Calvin Pease, secretaries

The following, among other resolutions, were dopted by the meeting:

Resolved, That a committee, consisting of two persons from each county represented in this convention, be appointed by the respect-ive delegates thereof, to report to this meeting a statement of facts in relation to the proposed union of the Pennsylvania and Ohio c presenting, in a concise manner as possible, the advantages resulting from such connexion to the commerce of the western country generally: its vast importance to the state of Pennsylva-nia, and the cities of Philadelphia and Pittsburgh; and the prospect it offers to capitalists, for a profitable investment of money.

Resolved, That a committee of five be appointed to examine the charters of the several companies authorised to effect a junction between the Pennsylvania and Ohio canals, and report upon the safety with which immediate measures may be taken, under the existing

Provisions, towards effecting the object in view. Resolved, That a committee of five members from the counties of Trumbull and Portage, be appointed, whose duty it shall be to collect all such statistical information as may have a beer-ing upon the operations of a canal to unite the Ohio and Pennsylvania canals; and if required, to communicate the same, from time to time, to the delegates to this convention, from the state of Pennsylvania.

Resolved, That the president and secretaries be directed to transmit the proceedings of this convention, together with the reports of the various committees, to the governors of Ohio and Pennsylvania, requesting that the same be laid before the legislatures of the respective

states for consideration.

"The tower of Pisa, in Italy, leans sixteen feet out of the perpendicular, so that strangers are afraid to pass under it; but as the plummet or line of direction falls within its base or foundation, it is in no danger of falling, if its materials keep together; and hence it has stood in this state three hundred years. But were an additional erection, of any conside rable elevation, to be placed upon its top, it would undoubtedly soon tumble to ruins.

"Were the number of such persons increased but a thousand-fold, so that for every twenty scientific investigators now existing, twenty thousand were employed in surveying the various localities, aspects and operations of nature, in the animal, vegetable, and mineral kingdoms, on the surface of the earth and the ocean, and in the celestial regions, dreds of new facts would, in all probability, be brought to light, for one that is now discovered by the present contracted circle of scientific men, from which new and important conclusions in the arts and sciences might

don. [From the Repertory of Patent Inventions for August, 1833.]

It is surprizing, amongst the numerous scientific institutions which are so liberally supported in this country, that till within a short period there should have been none which had for its express object the advancement of mechanical science. We had long considered that an institution of this character would meet with the most extensive support, and are not disappointed, for in our visits to the National Gallery of Practical Science we daily meet with some new subject for our consideration, though we have constantly to elbow our way to any object which we are desirous of examining, particularly should our visit be late in the day.

Several subscription soirces, under the patronage of His Royal Highness the Duke of Sussex, have also been held at this institution. On each evening, a conversation on some practical application of the sciences has been given; in addition to which, numerous models, and other subjects of interest, were arranged in various parts of the gallery. At some of these meetings we had the pleasure of being present, and cannot but congratulate the managers in having broken through the barrier which heretofore excluded ladies from joining these highly intellectual treats.

The object of this institution is to afford every possible encouragement and facility for the practical demonstration of discoveries in natural philosophy, and for exhibiting new applications of known principles to mechanical contrivances of general utility. In pursuance of these objects, several highly valuable and interesting experiments have already been tried; amongst others, may be mentioned a series of experiments on the production of high velocities to track-boats, such as have been some time in use on the Paisley canal. It had been stated, though not generally believed, that these boats, when caused to travel at a speed of from ten to twelve miles the hour, did not offer so much resistance as when travelling at lower speeds; this soon became a question of great importance to every engineer, as well as others; more particularly to those who were directly or indirectly interested in canal property, and hence an extensive experiment was gone into, under the superintendance of Mr. Telford, aided by other eminent engineers. The canal in the national gallery offering every convenience, the results were satisfactory, and will be highly useful in improving this description of conveyance. It was proved that, by the application of means to produce high speeds to these boats, they have a tendency to rise to the surface and displace less water, and consequently do not require a greatly increasing power to propel them as was generally considered. These experiments afterwards led to one of the Paisley boats being brought to the Paddington canal, and a continuation of experiments on the large scale. This boat was drawn by fast horses at the rate of from ten to fiften miles the hour, and similar results were obtained as upon the smaller scale; and we -believe that all parties were satisfied, that a speed of at least twelve miles an hour on our canals will soon become general, though we do not consider that horses will be so well adapted to this purpose as fixed engines. There have also been a series of experi-

ments made in respect to the application of tube is first formed by welding, and is turned tion are opened, and the dock is immediately undulating railroads, according to the pro-accurately on the outer surface; the next filled with water: assisted by stone ballast,

National Gallery of Practical Science, Lon-position of Mr. Badnall. We were not pre-tube is then formed, and is accurately turned number we gave our opinion of what might be expected to result from such an applicaments in the first place, because they are not now turn, taking the different subjects according to their numerical order.

No. 1. Newly discovered System of generating Steam. By Jacob Perkins.—This very simple yet beautiful system of generating steam, is, we understand, getting into use in fixed engines, in steamboats, and has No. 5. Steel Engraving, and Unlimited Transfer or Reproduction of the Subject or Use in fixed engines, in steamboats, and has been tried for a length of time on the Liverpool and Manchester railroads, with every the present day are produced by the exerprospect of the most decided success. riages travel, before the tubes of the boiler tility as to permit the engraver to use the are destroyed, is about 3000 miles. The finest tools with nearly the same ease as on carriage in which Mr. Perkins' system of a copper-plate. When the design is finished, circulation is applied, has travelled upwards the plate is hardened by a process of carboof 20,000 miles without the tubes giving nization, and it is then not only available to way. In consequence of these results, the the production of a hundred times as many directors have caused two new carriages to alike, excepting that to one is to be added the plates, almost ad infinitum, by transfer of plates to produce the circulation of the wa- the subject thereto in perfect fac simile. The working of these two carriages will determine, in a great measure, the value of Mr. Perkins' invention, as applied to this description of boiler. But this principle of generating steam is also extensively
applicable in the production and manufactransfer the subject to any required number ture of spirits, sugar, salt, indigo, soda, soap, of soft plates, which plates may again be and other articles depending on ebullition used, by a similar process, in endless reprowith continuous circulation.

No. 2. Steam Gun. By the same .- We recommend our country, as well as our town for his discoveries in this branch of the arts: readers, to take the first opportunity to see he may be said to be the father of steel this destructive engine: nothing can better plate printing. In a manufacturing point of exemplify the powers of steam. This instrument is capable of throwing, in any di- the power of multiplying plates, whether on rection, a stream of seventy balls in four steel or copper, by this ingenious means

By the same. - A disc of soft iron, to which a velocity of 5,400 revolutions in a minute; and by placing a file, or other piece of the highest tempered steel, in contact with the pethereby a brilliant and beautiful combustion.

The peculiar result produced by this instrument is very interesting. A machine on similar principles has lately been patented practised. for cutting and grooving marble, by the use of a circular disc of soft metal, which revolves with immense velocity.

No. 4. Compression of Water. By the same .- An apparatus which, by hydrostatic pressure, compresses water to an extent equal to a fourteenth part of its volume. The force employed is equivalent to a pressure of 30,000 lbs. to the square inch, and is applicable to other liquids.

In most of our works on natural philosophy water is treated as incompressible and non-elastic; by this apparatus the opposite of these two propositions is clearly shown. There was considerable difficulty in getting a vessel capable of resisting so high a pressure; and the chief feature of this instrument is the manner of constructing the cylinder, which is formed of a series of con-centric tubes; thus the inner or smaller dock," certain valves of the simplest construc-

sent at any of the trials, but in our last on the inner surface, and the bore of this second or outer tube is just too small to re-ceive the first tube; but in order that it may do so, it is heated, till, by expansion, it is capable of receiving the first tube within it, mentioned in the catalogue, to which we will and in cooling, the second tube shrinks on now turn, taking the different subjects active first tube, and strongly embraces them together; a third tube, a fourth, and so on, are similarly put on till a cylinder is produced ca-pable of withstanding any extent of pressure.

beautiful and highly finished engravings of prospect of the most decided success. The cise of this invention; to effect which a steel average distance which the locomotive carplate is first softened to such a state of ducimpressions as a copper-plate would yield, be constructed, which are to be in every way but is also made the means of forming other

This transfer is made by passing a cylin-

duction.

To Mr. Perkins we are greatly indebted view this invention is most highly valuable: seconds, with a strength equal to gunpowder. of transferring designs from hardened sur-No. 3. Combustion of the Hardest Steel. faces, is unlimited; any number of plates of soft metal may be produced from one enmotion is given by a steam engine, attached graving by the artist, which may be after-to the boiler of the steam gun, is turned with wards hardened. The printers of silks, muslins, calicoes, &c. are thus enabled to expend large sums, of money in paying the best artists for designing over a small surriphery of the disc, the friction caused by the face, and executing the same in the best soft iron destroys or cuts the steel, producing manner of their art. Their design may then be multiplied to the extent required, particulerly in covering the whole surface of printing cylinders, which is now very commonly

> A PORTABLE DRY DOCK .- A gentleman of our city, who was recently at Pittsburg, has described to us a Portable Dry Dock, which is in advantageous use there, and which should be introduced in every sea port in the United States. It is formed of strong timber, well planked at the sides and bottom, and at one end. At the other end a gate is constructed, such as is sometimes used as a lock gate, which is closed when required, so as to form a firm and perfect barrier against the admission of water. At the planked and fixed end of the Dock is placed a small engine, the cost of which did not exceed three hundred dollars. This is employed to work four pumps, by which the water is taken from the dock with rapidity and ease.

> When a vessel is about to be "taken into

preparations to take in a vessel are com- their winter subsistence. Upon my exami- sired, for the two purposes of dividing menced, she may be admitted into the dock and safely "shoved up," so as to enable the did not exceed 70°, whilst exposed to the killing the bees. Mr. Todd believes that the security and comfort, and in an ample space.

been in constant and successful use at Pitts- ture;" this superiority, particularly in the burg for upwards of two years, and no doubt of its competency for all the purposes of repairing the bottoms of vessels, and for lows in the steps of Mr. Nutt, informed me all the uses of "Dry Dockage," is there entertained.

This "Dry Dock" has been used on the Ohio for the repairs of steamboats of the largest class, exceeding 600 tons in burden, and, therefore, as large as most of the shipping on the sea-board of the United States.

During the prevalence of the cholera on the Ohio last summer, a large steamboat went to Pittsburg to repair: that fatal disease was supposed to prevail on board of this boat, and objections to her repairing near Pittsburg were loudly expressed. She towed the dry dock down the Ohio, and having carried it to a proper place, she went into it, was completely repaired, and then towed it back to Pittsburg.

The inventor and constructor of this valuable work is Mr. THOMAS CUNNINGHAM, of Pittsburg, now residing there: he is an ingenious, industrious, and respectable mechanic. If this notice of his work shall promote his fortune, the gentleman who has communicated this statement will be highly gratified.

It is understood that Mr. Cunningham has obtained a patent for his Portable Dry Dock.

The Marquis of Blandford's Apiary, on Mr. Nutt's System. [From the London Mechanics' Magazine.]

have uniformly taken in whatever relates to the extension of Mr. Nutt's invaluable nagement into universal introduction. Let system of bee management, (see page 174 the example but be extended, and the practice inculcated, amongst our rural populaward to your notice a detail of the success-tion, and, whilst it will greatly conduce to ful results of that system, in the hands of their advantage, we need no longer look to

His lordship's park is most delightfully situated, about a mile from the romantic and retired village of Pangebourne, in Berkshire. The choice of the situation for the apiary is most excellent and delightful. It is at the top of a tower, forty-six feet high, situated in the midst of a wood, and commanding a most extensive view of the surrounding country, including a great part of Berkshire, Oxfordshire, Wiltshire, and Hampshire, the face of nature being clad in its endless variety of fertility, and old father Thames gently meandering through the valley formed by the distant hills which close the scene, but affording few prospective traces of those immense physical developements of his powers which render him truly the monarch lordship possesses four colonies in collateral hives, and one inverted hive, all of which have been started since April. In the collateral hives the labors of the bees have

nation, the thermometer in the end boxes carpenters to work at the bottom with perfect atmosphere it was at 64°. A most resecurity and comfort, and in an ample space. markable contrast was afforded by the su-The whole cost of this dock did not perior quality of the honey contained in the amount to twelve hundred dollars. It has end box over that in the "pavilion of nacoloring matter, was most evident. Mr. Smith, the intelligent keeper, who quite folthat the average quantity of honey produced from a cottage hive, upon the old system of management, did not exceed 30 lbs. to 40 lbs., whilst only in one case did he obtain, from a hive enlarged by eking, the amount of 50 lbs. It is extremely satisfactory and fortunate that, for the sake of reference, Mr. Nutt's system has fallen into such good hands, as both his lordship and the keeper appear to be as devoted to the system as they have been happy in the results.

I am not able to speak much regarding the progress of the inverted hives, of which his lordship has two-the one being at the top of the tower, and the other on the lawn at the back of the house—the former containing twenty-three glasses, and the latter thirty-three: this last is really a magnificent construction, an ornamental garden appendage such as few noblemen can boast. bees had in each filled all the intermediate parts betwixt the hives and the glasses, and were just commencing their labors in the latter. Next summer his lordship will, I anticipate, reap an extensive harvest, both from these as well as his collateral hives, which are getting into prime and excellent condition for the winter.

I have troubled you with these details, because they relate to facts, and a publica-SIR,-From the interest which you tion of such facts is all that is required to introduce this admirable system of bee mathe Marquis of Blandford, at Delabere Park, rance or Italy for a supply of treasures in its place, being the ordinary working near Reading. which our own country and peasantry could state. The pedestal A is a pillar of wood so efficiently produce.

I am, sir, your obedient servant, ABRAHAM BOOTH. Reading, July 22, 1833.

[In no country is there more facility afforded for the introduction of some such plan two staples which pass through the mortices, as in this, and the great interest many of our readers have expressed on the subject, in- The stool is a board 142 inches square, with duces us to insert another article from one of the best periodicals of the present day .-ED. M. M.]

Description of an Improved Bee-Hive. By the Quarterly Journal of Agriculture.]

Mr. Todd, having, for some years past,

it sinks to a sufficient depth to admit the ves-sel; the gates are then opened, and she is floated in. In five hours from the time the swarms and the abstraction of honey without plan is hitherto confined to himself and two or three others in his neighborhood, but is desirous that its advantages should be made known.

The annexed cuts, figs. 1 and 2, exhibit

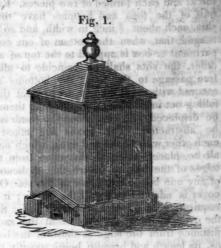


Fig. 2.

or stone, of any convenient height, and fixed securely in the ground. On the top of the pillar is fixed a piece of stout board, having at each end a perforation or mortice. The stool or basement, B, on which the hive is set, is fastened to the former by means of and secured with two iron or wooden plugs. a landing place, C, in front, which is rounded off on the upper surface to prevent the lodgement of water. Round this board, at the distance of half an inch from its outer edge, escription of an Improved Bee-Hive. By is a frame of wood 1½ inches broad, and 1 Mr. William Todd, Kirkmaiden. [From inch in thickness. This is fixed upon the upper surface of the stool, having in the front side a door of entrance for the bees. of rivers. On the top of this tower his made the management of bees a subject of This passage may be made 2 inches in width study, has paid particular regard to the va- by I inch in height on the outside, but wirious kinds of hives, and the modes adopted dening inward to 3 inches by 1 inch in for separating the bees from a part of their height. The side of the frame opposite to work, without injury to the remainder of the been highly successful. From one colony bees or their combs; and after trying variable has already separated a box containing 30 lbs. of honey, whilst another box, along with three small glasses, which cannot contain together less than 40 lbs., since this hive was brought to its present in thickness, fitted to slide out like a drawer, thereby affording the means of cleaning out the bottom of the hive, and on which a supply of food can be placed when since this hive was brought to its present necessary. The inside measure of this mensions of the boxes.

The body of the hive is made of deal, about one inch in thickness. Its dimensions are 10% inches square inside measure, and the total height about 19% inches, but divided into three stories or compartments, D, E, F, each 61 inches high, and separable that the stray bees may settle in it. Let it refrom each other as occasion may require. Each box is furnished with a top and bottom perforated with oblong slits, as seen in the top of fig. 2; these are of hard-wood, & inch thick, and each formed of two pieces. Each half of the tops and bottoms have three slits, each about & inch in width, and so arranged, that, when the bottom of one compartment or box is applied to the top of any other, the slits shall all coincide to allow free passage to the bees; the bottoms are secured with small buttons, to prevent their falling out in handling, but allowing them to be displaced with ease when the comb is to be abstracted. The boxes are united to each other with hooks and eyes, which must all be placed at equal distances from the edges of the box, to insure the application of any one box to any other of the set. One cover is adapted to fit all the boxes; it is required to be of thick wood, in order that the eyes of the hooks may be at the same distance from the edge as those of the boxes, its length and breadth being exactly the same as the body of the hive. The cover may be made of a single piece of board, or it may be improved by making it in two layers, with a vacant space between; a few small holes may then be perforated in the lower half, and one larger one in the upper portion, the latter to be stopped with a cork, and opened when occasion requires.

The above is all that is essential to this hive, but the whole may be secured by the cover, fig. 1, the outer dimensions of which correspond with those of the stool or basement, that is 14\frac{3}{4} inches square, and the height sufficient to admit the three boxes or compartments of the hive. A folding flap is provided on the back part of the cover, to allow the slip bottom to be withdrawn and replaced, while in the front, as seen in the figure, a small part is cut away to leave the entrance clear:

swarm takes place, if the swarm is large, take three boxes, but if small, two will suf-fice. Should three boxes have been applied, a sieve. This is filled with diluted honey, or the lower one ought to be removed about thin syrup of sugar; and having put the the middle or end of September, as there floater upon it, draw out the slip behind, should never be more than two boxes al. and put in the feeder, which must be so near lowed for a hive during winter, nor till the the size of the opening as not to let a bee bees have thrown the first swarm; when a pass when it is in, and at the same time alfirst swarm is thrown, add a third box, to low it to go in freely. The hive is then prevent after-casts. If it is wished that the shut up to prevent other bees from having hive should not swarm at all, let a third box admission. be added about the 1st of June, when the hive begins to appear crowded, and after- nary way, without shutting them up, the bees wards a fourth box, if it appear necessary.

To divide swarms, watch the time when the hives become crowded, and when drones done, continue to rob the weak hive of all begin to appear in the bee garden. Place a stool or basement, with an empty box on it, this way often does harm rather than good. on each side of the hive you mean to divide, and have at hand a spare cover. Un- daily as much as the feeder will contain for hook the hive, and draw through between a succession of days, if they continue to the boxes a piece of thin wire or a thin table take it up, until they have got what may be knife, to separate any portions of wax that considered proper or sufficient. During this may adhere. In the evening, when the bees time they are closely shut up, and after feedare mostly home, move the boxes gently, and insert between them two large sheets settle, and till the neighboring swarms, if of one if of tin plate; lift the upper box with one of they be in motion, settle also, when the pashibited.

ready provided on one of the stools; close the entrance of this stool, and take out the tin plate; put the cover on the other portion of the hive, and remove it to the empty box on the other stool, and when all are properly secured, allow this division to remain open, main open during the following day, and at night shut it up, using precaution to admit the necessary air, and open the other division. Let the second be shut up, and the first open for twenty-four hours; and if the weather have been fine, you may set both at liberty; but if the weather have been unfavorable for bees going abroad, they must be kept apart a day longer. After this they will continue to work as separate swarms.

The person chiefly employed in shifting the boxes may be protected from the bees by a broad hat with a veil tied round the hat, and round the shoulders, made of calico, with a piece of gauze or cat-gut in front, and on the hands a pair of gloves, and over these a pair of woollen mittens, the clothes well buttoned up and secured.

Should the hive at killing time consist of three boxes, and the lower one be considered but partially filled, and should it, together with the middle one, be sufficient for the support of the hive, the upper box may then be taken away. To do this, disengage the upper box as before directed, and insert the sheets of tin plate; take away the upper box and lay it on a stool at 30 or 40 yards distance. Put the cover on the remaining boxes, and allow the bees free passage in both divisions. The bees in the removed box may be left alone for a little, and all that rise will fly back to the old stool, where, finding the hive as usual, they will remain. The bees in the separated box soon get tame when parted from the body of the hive, and may be blown out with bellows, or thrust out with a quill, and when once they take wing, they will go back to the old stool. Care should be taken at this season of the year to observe if the queen bee be in the separated box, that she may be preserved and put back safely to the hive.

When it is found necessary to feed bees, a trough of tinned iron, 101 inches long, 4 In the management of this hive, when a inches wide, and I inch nearly in depth, with a floating lid of nearly the same dimensions.

When weak swarms are fed in the ordiof neighboring hives are attracted, who not only carry off the food given, but, after it is their store, if they have any. Feeding in

In feeding, it is advisable to give the bees

the bound present

frame should correspond to the inside di-||the tin sheets, and place it over the box al-||sage may be left open. This prevents them from being the prey of neighboring swarms.

[From the New-York Farmer.]

EGGS OF THE SILK WORM .- On opening a cocoon and carefully taking off the shell of the chrysalis, the miller or perfect insect is exhibited entire. The insides of the miller appear to be composed wholly of eggs, without the least appearance of any other parts or members. It requires leisure and patience to ascertain the number of eggs in a single insect—a little more than we possess. Assigning the undertaking, therefore, to one of the fair sex, who sometimes, to say the least, possess the above requisites, we found the number to be about three hundred. Multiplying this number by 100, the product is 30,000 eggs, which will produce nearly as many worms. What ample and beautiful provision Providence has made to render this insect useful to man! If each one only laid a very few eggs, nearly the whole brood would be required to propagate the race, leaving so few cocoons that could be reeled, that none but: queens and princesses could afford to wear the 'royal purple."

IMPROVED LIVE STOCK .- The Hon. Henry Clay, while at his recent visit to Albany, offered for a bull and a heifer calf, six months old, belonging to Gen. S. Van Rensselaer, jr. four hundred dollars, which were refused.

They were from the famous stock of short horn Durham cattle, imported by Gen. S. Van Rensselaer in 1823, from the herd of Mr. Champion, England.

We are also informed that Mr. Bement, of Albany, is about importing some of the late improved breed of Jur'am cattle, as well as some of the much esteemed Southdown sheep.

Mr. Hawes, an English gentleman, lately settled near Albany, brought out with him last fall some of the Berkshire breed of hogs, which were very much admired at the fair, and the demand for the pigs was so great that he could not supply one half the demand.

We have two most beautiful pigs, or rather hogs, of this breed, three months old, obtained from Mr. Brientnall, of Goshen, N. Y. We have not had the pleasure of seeing Mr. Hawes' pigs, but if they are superior to ours, there is no wonder that the demand exceeds the supply.

VALUABLE HEIFER CALF .- The famous white cow, Dulcibella, an imported full bred improved Durham Short Horn, exhibited by Mr. C. N. Bement, at the late cattle show and fair, held at the city of Albany, has since produced a heifer calf, for which, we are informed, he refused fifty dollars before she was twenty-four hours

CUTTING OFF POTATO BLOSSOMS .- We have inserted notices of the increased products from this practice. A writer in the New-England Farmer made an experiment, which resulted in obtaining a less quantity from the row deprived of the blossoms.

EXHIBITION OF DAHLIAS.—A gentleman who has returned in one of the late packets from England, was at an exhibition of dahlias at Cambridge, in September, shown by the Horticultural Society, and was told that upwards of one thousand varieties of dahlins were ex-

sunot contain ogether less

(From the Washington Globe-Extra.)

# MESSAGE

Of the President of the United States to both Houses of Congress.

FELLOW-CITIZENS OF THE SENATE, AND HOUSE OF REPRESENTATIVES:

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On your assembling to perform the high trusts which the people of the United States have conwhich the people of the United States have confided to you, of legislating for their common welfare, it gives me pleasure to congratulate you upon the happy condition of our beloved country. By the favor of Divine Providence, health is again restored to us; peace reigns within our borders; abundance crowns the latest of the favor falls. bors of our fields; commerce and domestic in-dustry flourish and increase; and individual happiness rewards the private virtue and enterprize of our citizens.

Our condition abroad is no less honorable than it is prosperous at home. Seeking nothing that is not right, and determined to submit to nothing that is wrong, but desiring honest friendships and liberal intercourse with all nations, the United States have gained throughout the world the confidence and respect which are due to a policy so just and so congenial to the character of the American people and to the spirit of their institutions.

In bringing to your notice the particular state of our Foreign Affairs, it affords me high gratification to inform you, that they are in a condi-

ship with all nations.

With Great Britain the interesting question of our Northeastern Boundary remains still undecided. A negociation, however, upon that which the short beautiful to the state of th subject, has been renewed since the close of the last Congress; and a proposition has been submitted to the British Government with the view of establishing, in conformity with the resolution of the Senate, the line designated by the Treaty of 1783. Though no definitive answer has been received, it may be daily looked for, and I entertain a hope that the overture may ultimately lead to a satisfactory

adjustment of this important matter.

I have the satisfaction to inform you that a negociation, which, by desire of the House of Representatives, was opened some years ago with the British Government, for the erection of light-houses on the Bahamas, has been successful. Those works, when completed, to-gether with those which the United States

treest thereon, to be received from the French Government, and transferred to the U. States in such manner as he may deem best; and by the same act of Congress, the stipulations on the part of the U. States, in the Convention, were in all respects fulfilled. Not doubting that a treaty thus made and ratified by the two Governments, and faithfully executed by the U. States, would be promptly complied with by the other party, and desiring to avoid the risk and expense of intermediate agencies, the Secretary of the Treasury deemed it advisable to receive and transfer the first instalment by means of a draft upon the French Minister of Finauce. A draft for this purpose was accordingly drawn in ry to cause the several instalments, with the indraft for this purpose was accordingly drawn in favor of the Cashier of the Bank of the United States, for the amount accruing to the United States out of the first instalment, and the interest payable with it. This bill was not drawn at Washington until five days after the instalment was payable at Paris, and was accompanied by a great out to the companied by the companies of the United States, for the United States, or the United States, or the United States, or the United States, or the United States out of the United States out nied by a special authority from the President, authorizing the Cashier or his assigns to receive the amount. The mode thus adopted of receiving the instalment was officially made known to the French Government, by the American Charge d'Affaires at Paris, pursuant to instructions from the Department of State. The bill, however, though not presented for payment until the 23d day of March, was not paid, and for the reason assigned, by the French Minister of Finance, that no appropriation had been made by the French Chambers. It is not known to me that up to that period any appropriation had been required of the Chambers; and, although a communication was subsequently made to the Chambers, by direction of the King, recom-mending that the necessary provision should be made for carrying the convention into effect, it was at an advanced period of the session, and the subject was finally postponed until the next meeting of the Chambers.

Notwithstanding it has been supposed by the French Ministry, that the financial stipulations of the treaty cannot be carried into effect without an appropriation by the Chambers, it appears to me to be not only consistent with the charter of France, but due to the character of both Governments, as well as to the rights of our citizens, to treat with the convention made and ratified in proper form, as pledging the good faith of the French Government for its execution, and as imposing upon each De-partment an obligation to fulfil it: and I have received assurances through our Charge d'Af-faires at Paris and the Freach Minister Pleni-

him in season to communicate the result of his application to the French Covernment at an early period of your session. I accordingly appointed distinguished citizen for this purpose, who proceeded en his mission in August last, and was presented to the King early in the month of October since which time no despatches have been received from him. He is particularly instructed as to almatters connected with the present posture of affairs, and I indulge the hope, that with the representations he is instructed to make, and from the dispositions manifested by the King and his Minister as Paris, the subject will be early considered and eat infactorily disposed of at the next meeting of the Chambers.

isfactorily disposed of at the next meeting of the Chambers.

As this subject involves important interests, and has attracted a considerable share of the public attention, I have deemed it proper to make this explicit statement of its actual condition: and should I be disappointed in the hope now entertained, the subject will be again brought to the notice of Congress in such manner as the occasion may require.

The friendly relations which have always been maintained between the United States and Russis, have been further extended and strengthened by the treaty of navigation and commerce concluded on the 6th of December last, and sanctioned by the Fenate before the close of its last session. The ratifications having been since exchanged, the liberal provisions of the Treaty are now in full force; and, under the encouragement which they have received, a flourishing and increasing commerce, yielding its benefits to the enterprize of both nations, affords to each the just recompense of wise measures, and adds new motives for that mutual friendship which the two countries have hitherto friendship which the two countries have hitherto cherished tewards each other.

It affords me peculiar satisfaction to state that the Government of Spain has at length yielded to the justice of the claims which have been so long the justice of the claims which have been so long urged in behalf of our citizens, and has expressed a willingness to provide an indemnification, as soon as the proper amount can be agreed upon. Upon this latter point, it is probable an understanding had taken place between the Minister of the United States and the Spanish Government, before the decease of the late King of Spain, and, unless that event may have delayed its completion, there is reason to hope that it may be in my power to announce to you early in your present session, the conclusion of a convention upon terms not less favorable than those entered into for similar objects with other nations. That act of justice would well accord with the character of Spain, and is due to the United States from their ancient friend. It sould not fail to strengthen the sentiments of amity and good will between the two nations which it is so much the wish of the United States to cherish, and so truly between the two nations which it is so much the wish of the United States to cherish, and so truly the interest of both to maintain.

its execution, and as imposing upon each Department of the United States to cherish, and so truly gether with those which the United States of the Gulf of Florida, will contribute essentially to Gulf of Florida, will contribute essentially to the safety of navigation in that sea. This joint participation in establishments interesting to funannity and beneficial to commerce, is worthy of two enlightened nations; and indicates feelings which cannot fail to have a happy inguishment interesting to find the cannot fail to have a happy inguishment of the United States of the Control of two enlightened nations; and indicates feelings which cannot fail to have a happy inguishment of the United States of the Control of two enlightened nations; and indicates feelings which cannot fail to have a happy inguishment of the United States of the Control of the Cont

ates and those Islands, particularly the former, is discrimination causes serieus injury to one of one great national interests which it has been conlered an essential part of our policy to cherish, it has given rise to complaints on the part of our erchants. Under instructions given to our Ministrat Madrid, earnest representations have been ade by the Spanish Government upon this subject, in there is reason to expect, from the friendly dissistion which is entertained towards this country, at a beneficial change will be produced. The advantage, however, to which our shipping is bjected by the operation of these discriminating littes, requires that they be met by suitable country, at all of the country in the country of the country tervailing duties during your present session; power being at the same time vested in the President to medify or discontinue them, as the discriminating meddy or discontinue them as the discriminating duties on American vessels or their cargoes may be modified or discontinued at these Islands. Intimations here been given to the Spanish Government, that the United States may be obliged to resort to auch measures as are of necessary self defence; and there is no reason to apprehend that it would be unfavorably received. The proposed proceeding, if adopted, would not be permitted, however, in any degree to introduce a relaxation in the efforts of our Minister to effect a repeal of this irregularity by friendly negociation, and it might serve to give force to his representations by showing the dangers to which that valuable trade is exposed, by the obstructions and burthens which a system of discriminating and countervailing duties necessarily pronating and countervailing duties necessarily pro-

The selection and preparation of the Florida ar-chives for the purpose of being delivered over to the United States, in conformity with the royal order, as mentioned in my last annual message, though is progress, has not yet been completed. This delay has been produced, partly by causes which were unavoidable, particularly the prevalence of the cholera at Havana; but measures have been taken which it is believed will expedite the delivery of nas hoen produce unavoidable.

Congress were informed at the opening of the at session, that, "owing, as was alleged, to emurassments in the finances of Portugal, consequent the civil war in which that nation was en "payment had been made of only one instal-of the amount which the Portuguese Government had stipulated to pay for indemnifying our citizens for property illegally captured in the block-

e of Terceira.

Since that time a postponement for two years, Since that time a postponement for two years, with interest, of the two remaining instalments, was requested by the Portuguese Government; and as a consideration, it offered to stipulate that rice of the United States should be admitted into Portugal at the same duties as Brazilian rice. Being satisfied that no better arrangement could be made, my consent was given, and a royal order of the King of Portugal was accordingly issued on the 4th of February last, for the reduction of the duty on rice of the United States. It would give me great pleasure, if, in speaking of that country, in whose prosperity the United States are so much interested, and with whom a long subsisting, extensive, and mutually advantageous commercial intercourse has really advantageous commercial intercourse has strong bened the relations of friendship, I could an-nounce to you the restoration of its internal tran-

equently to the commencement of the last seson of Congress, the final instalment payable by Den-ark under the convention of the 28th day of March, 1830, was received. The commissioners for examin-ng the claims have since terminated their labors, and their awards have peen paid at the Treasury as they have been called for. The justice rendered to our citiuens by that government is thus completed, and a pledge is thereby afforded for the maintenance of that friendly intercourse becoming the relations that the

friendly intercourse becoming the relations that the two nations mutually bear to each other.

It is satisfactory to inform you that the Danish government have recently issued an ordinance by which the commerce with the Island of St. Croix is placed on a more liberal footing than heretofore. This change cannot fail to prove beneficial to the trade between the United States and that colony, and the advantages likely to flow from it may lead to greater relaxations in the colonial systems of other nations. The ratifications of the Convention with the King of the Two Sicilies have been duly exchanged, and the Commissioners appointed for examining the claims under it, have entered upon the duties assigned to them by law. The friendship that the interests of the two nations require of them being now established, it may be hoped that each will enjoy the benefits which a liberal commerce should yield to both.

A Treaty of Amity and Commerce between the United States and Bellium was concluded during the last winter, and received the sanction of the Senate; but the exchange of the ratifications has been hitherte delayed, in consequence, in the first instance, of some delay in the reception of the Treaty at Brussels, and, subsequently, of the absence of the Bellium Government, but with certain additional and explanatory articles of a nature to have required it to be again submitted to the Senate. The time limited for the exchange of the ratifications, however, the last winter, and received the sanction of the Se-nate; but the exchange of the ratifications has been hitherte delayed, in consequence, in the first instance, of some delay in the reception of the Treaty at Brus-sels, and, subsequently, of the absence of the Bel-gian Minister of Foreign Affairs at the important conferences in which his Government is engaged at

That treaty does but embody those calarged prin-ciples of friendly policy, which, it is sincerely hoped, will always regulate the conduct of the two nations, having such strong motives to maintain amicable re-lations towards each other, and so sincerely desirous

With all the other Enropean powers with whom the United States have formed diplomatic relations, and with the Sublime Porte, the best understanding prevails. From all, I continue to receive assurances prevails. From all, I continue to receive assurances of good will towards the United States, assurances which it gives me no less pleasure to receive than to receive. With all, the engagements which have been entered into are fulfilled with good faith oth sides. Measures have also been taken to enlarge our friendly relations and extend our com-mercial intercourse with other States. The system we have pursued of aiming at no exclusive advan-tages, of dealing with all on terms of fair and equal reciprocity, and of adhering scrupulously to all our engagements, is well calculated to give success to efforts intended to be mutually beneficial.

The wars of which the southern part of this conti-nent was, so long, the theatre, and which were car-

ried on, either by the mother country against the States which had formerly been her celonies, or by the States against each other, having terminated, and their civil dissensions having so far subsided, as, with few exceptions, no longer to disturb the public tranquillity, it is carnestly hoped those States will be able to employ themselves without interruption in perfecting their institutions, cultivating the arts of peace, and promoting, by wise councils and able ex-ertions, the public and private prosperity which their natriotic struggles so well entitle them to enjoy.

With those States our relations have undergone but little change during the present year. No re-union having yet taken place between the States which composed the republic of Colombia, our Charge d'Affaires at Bogota has been accredited to the Government of New Grenada, and we have therefore no diplomatic relations with Venezuela and E. quator, except as they may be included in those here-tofore formed with the Colombian Republic. It is understood that representatives from the three States were about to assemble at Bogota to confer on the subject of their mutual interests, particularly that of their union; and if the result should render it neces-sary, measures will be taken on our part to preserve with each that friendship and those liberal commer-cial connections which it has been the constant desire of the United States to cultivate with their sister Re publics in this hemisphere. Until the important question of re-union shall be settled, however, the differ ent matters which have been under discussion be ween the United States and the Republic of Colom bia or either of the States which composed it, are not likely to be brought to a satisfactory issue.

In consequence of the illness of the Chargé d'Affaires appointed to Central America at the last ses-

sion of Congress, he was prevented from proceed ding on his mission until the month of October. is hoped, however, that he is by this time at his post, and that the official intercourse, unfortunately so long interrupted, has been thus renewed on the part of the two nations so amicably and advantageously connected by engagements founded on the most enlarged principles of commercial reciprocity.

It is gratifying to state, that, since my last annual

nessage, some of the most important claims of our fellow-citizens upon the Government of Brazil have been satisfactorily adjusted, and a reliance is placed on the friendly dispositions manifested by it, that justice will also be done in others. No new cases of complaint have arisen: and the trade between the two countries flourishes under the encouragement ocured to it by the liberal provisions of the treaty.

It is cause of regret, that, owing probably to the civil dissensions which have occupied the attention of the Mexican Government, the time fixed by the treaty of limits with the United States for the meeof the Mexican Government, the time fixed by the treaty of limits with the United States for the meating of the Commissioners to define the boundaries between the two nations, has been suffered to expire without the appointment of any Commissioners on the part of that Government. While the true boundary remains in doubt by either party, it is difficult to give effect to those measures which are necessary to the protection and quiet of our numerous citizens.

ited for the exchange of the ratifications, however,

having since expired, the setion of both Governments on the treaty will again become necessary.

The negotiations commenced with the Argentine Republic relative to the outrages committed on our vessels engaged in the fisheries at the Falkland Islands by persons acting under the color of its authority, as well as the other matters in controversy between the two Governments have been suspended by the departure of the Charge d'Affaires of the U.S. from Barries Aves. It is understand however, that fromBuenos Ayres. It is understood, however, that a minister was subsequently appointed by that Govern-ment to renew the negotiation in the United States, but though daily expected, he has not yet arrived in

With Peru no treaty has yet been formed, and with Bolivia no diplomatic intercourse has yet been established. It will be my endeavor to encourage those sentiments of smity and that liberal commerce which belong to the relations in which the independ-ent States of this continent stand towards each other.

I deem it proper to recommend to your notice the revision of our consular system. This has become as it is intimately connected with the preservation of our national character abroad, with the interest of our citizens in foreign countries, with the regulation and care of our commerce, and with the protection of our seamen. At the close of the last session of Congress I communicated a report from the Secretary of State upon the subject, to which I now refer, as containing information which may be useful in any inquiries that Congress may see fit to institute with a view to a salutary reform of the system.

It gives me great pleasure to congratulate you up on the prosperous condition of the finances of the country, as will appear from the report which the Secretary of the Treasury will in due time lay before you. The receipts into the Treasury during the present year will be more than thirty-two millions of dollars. The revenue derived from customs will, it is believed, be more than twenty-eight millions, and the public lands will yield about three millions. The expenditures within the year for all objects, including \$2,572,240 99 on account of the public debt, will not amount to twenty-five millions; and a large ba-lance will remain in the Treasury after satisfying all the appropriations chargeable on the revenue for the

present year.

The measures taken by the Secretary of the Treasury will prohably enable him to pay off in the course of the present year the residue of the exchanged four and a half per cent. stock, redeemable on the first of January next. It has therefore been included in the estimated expenditure of this year, and forms a part of the sum above stated to have been paid on account of the public debt. The payment of this stock will reduce the whole debt of the United States, funded and unfunded, to the sum of £4,760,982 08. And as provision has already been made for the four and a half per cents. above mentioned, and charged in the expenses of the present year, the sum last stated is all that now remains of the national debt; and the revenue of the coming year, together with the balance now in the Treasury, will be sufficient to discharge it, after meeting the current expenses of the Government. Under the power given to the Commissioners of the Sinking Fund, it will, I have no doubt, be purased on favorable terms within the year.

chased on favorable terms within the year.

From this view of the state of the finances and the public engagements yet to be fulfilled, you will perceive that, if Providence permits me to mest you at another session, I shall have the high gratification of announcing to you that the national dobt is extinguished. I cannot refrain from expressing the pleasure I feel at the near appreach of that desirable event.—
The short period of time within which the public debt will have been discharged is strong evidence of the abundant resources of the country, sed of the proabundant, resources of the country, aed of the pru-dence and economy wite which the Government has heretofore been administered. We have waged two

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ing to the public servants who follow us in the admin-tration of the Government, the rare blessing of a re-venue sufficiently abundant, raised without injustice or oppression to our fellow citizens, and unincum-bered with any burthens but what they themselves

shall think proper to impose upon it.

The flourishing state of the finances ought not, however, to encourage us to indulge in a lavish expenditure of the public treasure. The receipts of the present year, do not furnish the test by which we are to estimate the income of the next. The we are to estimate the income of the next. The changes made in our revenue system by the acts of Congress of 1832 and 1833, and more especially by the former, have swelled the receipts of the present year, far beyond the amount to be expected in future years upon the reduced tariff of duties. The shortened credits on revenue bonds, and the cash duties on woollens, which were introduced by the act of 1832, and took effect on the fourth of March last, have brought large sums into the Treasury in 1863, which, according to the credits formerly given, would which, according to the credits formerly given, would not have been payable until 1834, and would have formed a part of the income of that year. These causes would of themselves produce a great diminu-tion of the receipts in the year 1834, as compared with the present one; and they will be still more diminished by the reduced rates of duties which take place on the first of January next, on some of the most productive articles. Upon the best estimate that can be made, the receipts of the next year, with the aid of the unappropriated amount now in the Treasury, will not be much more than sufficient to meet the expenses of the year, and pay the small remnant of the national debt which yet remains unsatisfied. I connot therefore, recommend to you any alteration in the present tariff of duties. The rate as now fixed by law on the various articles, was adopted at the last session of Congress, as a matter of compromise, with unusual unanimity, and unless it is found to produce more than the necessities of the Government call for, there would seem to be no rea son at this time to justify a change.

son at this time to justify a change.

But while I ferbear to recommend any further reduction of the duties, beyond that already provided for by the existing laws, I must earnestly and respectfully press upon Congress the importance of abstaining from all appropriations which are not absolutely required for the public interest, and author-ized by the powers clearly delegated to the United States. We are beginning a new era in our Govern-ment. The national debt, which has so long been a burthen on the Treasury, will be finally discharged in the course of the ensuing year. No more money will afterwards be needed than what may be necessary to meet the ordinary expenses of the Government. low, then, is the proper moment to fix our system of expenditure on firm and durable principles : cannot too strongly urge the necessity of a rigid economy, and an inflexible determination not to enlarge the income beyond the real necessities of the Gov. ernment, and not to increase the wants of the Gov ernment by nanecessary and profuse expenditures. If a contrary course should be pursued, it may happen that the revenue of 1834 will fall short of the demands npon it; and after reducing the tariff in order to lighten the burdens of the people, and provi ding for a still further reduction to take effect here. after, it would be much to be deplored if. at the end of another year, we should find ourselves obliged to retrace our steps and imdose additional taxes to

meet unnecessary expenditures.

It is my duty on this occasion to call your atten tion to the destruction of the public building occupied by the Treasury Department, which happened since the last adjournment of Congress. A thorough inquiry into the causes of this loss was directed and made at the time, the result of which will be duly communicated to you. I take pleasure, however, in stating here, that by the laudable exertions of the officers of the Dspartment and many of the citizens of the Dspartment and many of the citizens of the District, but few papers were lost and none that will materially affect the public interest.

The public convenience requires that another building should be erected as soon as practicable, and in providing for it, it will be advisable to enlarge in some manner the accommodations for the public officers of the several Departments, and to authorize the erection of suitable depositories for the safe keeping of

ing to the public servants who follow us in the admin- | the charter will expire, as well as the conduct of the Bank, appeared to me to call for this measure, upon the high considerations of public interest and public duty. The extent of its misconduct, however, alduty. The extent of its misconduct, notice that time fully developed by proof. It was not until late in the month of the Land of the Government of August that I received from the Government Directors an official report, establishing beyond ques-tion, that this great and powerful institution had been actively engaged in attempting to influence the elections of the public officers by means of its money; and that in violation of the express provisions of its charter, it had, by a formal resolution, placed its funds at the disposition of its President, to be employed in sustaining the political power of the Bank. A copy of this resolution is contained in the report of the Government Directors before referred to; and however the same may be disguised by cautious language, no one can doubt that this money was, in truth, intended for electioneerieg purposes, and the particular uses to which it is proved to have been applied, abundantly show that it was so under Not only was the evidence complete as the past application of the money and power of the Bank to electioneering purposes, but that the resolution of the Board of Directors authorized the same course to be pursued in future.

It being thus established by unquestionable proof, that the Bank of the United States was converted into a permanent electioneering engine, it appeared to me that the path of duty which the Executive Department of the Government ought to pursue, was not doubtful. As by the terms of the Bank charter, no officer but the Secretary of the Treasury could remove the deposites, it seemed to me that this authority ought to be at once exerted te deprive that great corporation of the support and count of the Government in such an use of its funds, and such an exertion of its power. In this point of the case the question is distincty presented, whether the people of the United States are to govern, through representatives chosen by their unbiassed suffrages, or whether the power and money of a great cor-portion, are to be secretly exerted to influence their judgment, and control their decisions. It must now be determined whether the Bank is to its candidates for all offices in the country, from the highest to the lowest, or whether candidate on both sides of political questions shall be brought forward is heretofore, and supported by the usual

At this time the efforts of the Bank to control pub At this time the enorts of the Bank to course public opinion, through the distresses of some, and the fears of others, are equally apparent, and if possible more objectionable. By a curtailment of its accommodations more rapid than any emergency requires, and even while it retains specie to an almost unprecedented amount in its vaults, it is attempting to produce great embarassment in one portion of the com-munity, while through presses known to have been sustained by its money, it attempts by unfounded a-

larms to create a panic in all.

These are the means by which it seems to expe that it can force a restoration of the deposites, and as a necessary consequence extort from Congress a renewal of its charter. I am happy to know that, through the good sense of our people, the effort to get up a panic has hitherto failed, and that, through the increased accommodations which the State Banks have been enabled to afford, no public distress has followed the exertions of the Bank, and it cannot be doubted that the exercise of its power and the ex-penditure of its money, as well as its efforts to spread groundless alarm, will be met and rebuked as they

In my own sphere of duty, I should feel myself called on by the facts disclosed, to order a scire facias against the Bank, with a view to put an end to the chartered rights it has so palpably violated, were it not that the charter itself will expire as seen as a decision would probably be obtained from the court

of last resort.

I called the attention of Congress to this subject in my last annual message, and informed them that such measures as were within the reach of the Secretary of the Treasury, had been taken to enable him to judge, whether the public deposites in the Bank of the United States were certainly safe, but that as

ent to which the examination thus rec

ent to which the examination thus recommended, was gone into, is spread out upon your journals, and is too well known to be stated. Such as was made resulted in a report from a majority of the committee of ways and means, touching certain specified points only, concluding with a resolution, that the Government deposites might safely be continued in the Bank of the United States. This resolution was adopted at the close of the session by the vote of a majority of the house of Representatives.

Although I may not always be able to conour in the views of the public interest or the duties of its agents which may be taken by the other departments of the Government or either of their branches, I am, sotwithstanding wholly incapable of receiving otherwise than with the most sincere respect, all opinions or suggestions proceeding from such a source, and in respect to none am I more inclined to do so than to the House of Representatives. But it will be seen from the brief views at this time taken of the subject by myself, as well as the more ample ones presented by myself, as well as the more ample ones presented by the Secretary of the Tressury, that the change in the deposites which has been ordered, has been deem-ed to be called for by considerations which are not af-fected by the proceedings referred to, and which if

correctly viewed by that Department rendered its act a matter of imperious duty.

Coming as you do for the most part, immediately from the people and the States, by election, and possessing the fullest opportunity to know their sentiments, the present Congress will be sincerely solicitous to carry into full and fair effect the will of their constitutions. constituents in regard to this institution. It will be for those in whose behalf we all act, to decide whether the Executive Department of the Government, in the steps which it has taken on this subject, has been found in the line of its duty.

The accompanying report of the Secretary of War, with the documents annexed to it, exhibit the operations of the War department for the past year, and the condition of the various subjects entrusted to its administration.

administration.

It will be seen from them that the Army maintains the character it has heretofore acquired for efficiency and military knowledge. Nothing has occurred since your last session to require its services beyond the ordinary routine of duties, which upon the seaboard and the inland frontier develve upon it in a time of page. The system, so wisely adopted and It will be seen from them that the Army maintains board and the inland frontier develve upon it in a time of peace. The system, so wisely adopted and so long pursued, of constructing fortifications at exposed points, and of preparing and collecting the supplies necessary for the military defence of the country, and thus providently furnishing in peace the means of defence in war, has been continued with the usual results. I recommend to your consideration the various subjects suggested in the report of the Secretary of War. Their adoption would promote the public service and meliorate the condition of the Army.

Army. Our relations with the various Indian tribes have been undisturbed since the termination of the diffi-culties growing out of the hostile aggressions of the Sacs and Fox Indians. Several treaties have been formed for the relinquishment of territory to the United States, and for the migration of the occupants to the region assigned for their residence west of the Mississippi. Should these treaties be ratified by the Mississippi. Should these treaties be ratified by the Senate, provision will have been made for the removal of almost all the tribes remaining east of that river, and for the termination of many difficult and embarrassing questions arising out of their anomalous political condition. It is to be hoped that those portions of two of the southern tribes, which in that event will present the only remaining difficulties, will realize the necessity of emigration, and will speedily resort to it. My original convictions upon this subject have been confirmed by the course of events for several years, and experience is every day adding to their strength. That those tribes cannot exist, surrounded by our settlements, and in continual contact with our citizens, is certain. They have neither the intelligence, the industry, the moral habits, nor the desire of improvement which are assential to any favorable change in their condition. Established in the midst of another and a superior race, and without appreciation the account of the course of the cour of another and a superior race, and without appreciating the causes of their inferiority, or seeking to control them, they must necessarily yield to the force of circumstances and ere long disappear. Such has been their fate heretolore, and if it is to be averted and it is it can only be done by tien of suitable depositories for the safe keeping of the public documents and records.

Since the last adjournment of Congress, the Section of the United States to be deposited in certain State Banks designated by him, and he will immediately lay before you his reasons for this direction. I conserve with him entirely in the view he has taken of the subject, and some months before the removal, I arged upon the Department the propriety of taking that step. The near approach of the day on which the report of the Commissioners now engaged in investigating the condition and prospects of these Indians, and in devising a plan for their intersourse and government is received, I trust ample means of information will be in possession of the Government for adjusting all the unsettled questions connected with this interesting subject.

The operations of the Navy during the year, and its present condition, are fully exhibited in the annual report from the Navy Department.

Suggestions are made by the Secretary, of various improvements which deserve careful consideration, and most of which, if adopted, bid fair to promote the efficiency of this important branch of the public service. Among these are the new organizaport of the Co

mote the efficiency of this important branca of the public service. Among these are the new organization of the Navy Board, the revision of the pay to officers, and a change in the period of time, or in the manner of making the annual appropriations, to which I beg leave to call your particular attention.

The viewe which are presented on almost every portage.

tion of our naval concerns, and, especially, on the amount of force, and the number of officers, and the general course of policy appropriate in the present state of our country, for securing the great and use-ful perposes of naval protection in peace, and due preparation for the contingencies of war, meet with

my entire approbation. It will be perceived from the report referred to, that the fiscal concerns of the establishment are in an excellent condition; and it is hoped that Congress may feel disposed to make promptly, every suitable provision desired, either for preserving or improv-

General Post Office Department has continued upon the strength of its own resources to facilitate the means of communication between the various portions of the Union with increased activity. The method, however, in which the accounts of the transportation of the mail has always been kept, appears to have presented an imperfect view of its expenses. It has recently been discovered that from the earliest records of the Department, the annual statements have been calculated to exhibit an amount considerably short of the actual expense incurred for that service. These illusory statements, together with the expense of car-rying into effect the law of the last session of Congress, establishing new mail routes, and a disposi-tion on the part of the Head of the Department to gratify the wishes of the public in the extension of mail facilities, have induced him to incur responsibilities for their improvement beyond what the current resources of the department would sustain. As soon as he had discovered the imperfection of the method, used an investigation to be made of its results, and applied the proper remedy to correct the evil. It became necessary for him to withdraw some of the im rovements which he had made, to bring the expenses of the Department within its own resources. These expenses were incurred for the public good, and the public have enjoyed their benefit. They are now but partially suspended, and that, where they may be discontinued with the least inconvenience to the country.

The progressive increase in the income from post-ges has equalled the highest expectations, and it fords demonstrative evidence of the growing imporance and great utility of this department. The de-

the Postmaster General.

The many distressing accidents which have of late occurred in that portion of our navigation carried on by the use of steam power, deserve the immediate unremitting attention of the constituted authori ties of the country. The fact that the number of these fatal disasters is constantly increasing, notwith The fact that the number of standing the great improvements which are every where made in the machinery employed, and the rapid advances which have been made in that branch of science, show very clearly that they are in a great degree the result of criminal negligence on the part of those by whem the vessels are navigated, and to whose care and attention the lives and property of our citizens are so extensively entrusted.

That these evile may be greatly lessened, if not substantially removed, by means of precautionary and penal legislation, seems to be highly probable: so far therefore as the subject can be regarded as within the constitutional purview of Congress, I carnestly recommend it to your prompt and serious

I would also call your attention to the views I have

removed, and that their eligibility should be limi-

ted to one term of either four or six years, I cannot too earnestly invite your consideration of the subject Trusting that your deliberations on all the topic of general interest to which I have adverted, and suc others as your more extensive knowledge of the wants of our beloved country may suggest, may be crowned with success, I tender you in conclusion, the co-operation which it may be in my power to afford them.

ANDREW JACKSON.

Washington, 3d Dec. 1833.

CONGRESS-TURBDAY.

In the Senate the message was received, and on notion of Mr. King of Alabama, 5000 copies were ordered to be printed, and 1500 of the accompanying documenta.

In the House after electing Thomas B. Randolph Sergeant at arms and reappointing the fermer door keepers, the usual resolutions for appointing Chap. lains and furnishing the members with newspapers

were adopted.

Mr. Habbard moved that all, the former rules for the government of the House, be adopted, with the exception of the 56th and 76th. One of his pro-positions would be to increase the number of the members of the Standing Committees from 7 to and of the other Committees from 3 to 5. He also intended to propose that the members should sit un covered, until the Speaker should otherwise direct.

Mr. Williams said, that the proposition to sit with out hats had often been submitted, and had always een rejected. It had been rejected on the ground that there was no convenient place for putting our hats; but he supposed that those who proposed the change weuld provide a place. He doubted also, whether we should increase the efficiency of the by increasing their number. He wished time for reflection; and renewed his motion to lay the matter on the table.

Mr. Patton moved that the 9th Rule be also ex cepted; stating that it was his intention to move a modification of the 9th Rule; to the effect that the Speaker should vote in the first instance, in all cases and that if the House be equally divided, the ques tion should be lost.

The motion, as modified at the suggestion of Mr.

Pation, was agreed to.

WEDNESDAY, DECEMBER 4.

In the Senate, Mr. Sprague, from Maine, and Mr. Calboun, from South Carolina, appeared in their seats to-day.

Chair laid before the Senate a communication from the Secretary of the Treasury, enclosing the annual report of the Treasurer of the United States, and a report concerning the removal of the Public De-positos from the U. S. Bank and its branches, 5060 copies of the report, and 1500 copies of the documents. were ordered to be printed.

Rhode Island Senators.

Mr. S. Wright offered the following resolution:
Resolved. That the proceedings of the Legislature of the State of Rhode Island, now upon the table of the Senate, showing the appointment of Blisha R. Potter, as a Senator to represent that State in the Senate of the United States, be referred to a select committee of five Senators to inquire and report upon the claim of the said Elisha R. Petter to the seat in the Senate now occupied by the Hon, Asher Robbins.

Mr. Clay wished the resolution to lie over, be cause as the rules of the Senate gave to its Presi dent the appointment of Committees; and as that functionary was not present, though doubtless good reasons could be given for his absence, he was unwilling that so impertant a duty should devolve on a substitute. It might, too, in such a case as the present be deemed proper by the Senate to appoint the Committee themselves. Hence he wished for time to reflect. After some discussion, Mr. Wright said, in proposing the resolution, he had supposed that the Committee would be chosen by ballot, and he would not object to the gentleman from Kentucky amending the resolution to that effect. M1. Clay declined offering an amendment, but said if the resolution were so modified, he would no longer object to tak the Constitution in relation to the mode of electing the President and the Vice President of the United States. Regarding it as all important to the tuture quiet and harmony of the people, that very intermediate agency in the election of these officers should be distered as a supersident of the supersident and harmony of the people, that very intermediate agency in the election of these officers should be distered as a supersident and harmony of the people, that very intermediate agency in the election of these officers should be distered as a supersident and the had no objection to make the modification, and said he had no objection to make the modification, and said he had no objection to make the modification, and said he had no objection to make the modification, and said he had no objection to make the modification, and said he had no objection to make the modification, and said he had no objection to make the modification, and said he desired it to be understood that he had not intended to change the form of the moved, he would not object to it. ing it up. Mr. Wright said he had no objection to

Mr. Clay then moved to lay the resolution on the

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And it was so ordered without a division

In the House of Representatives the who was spont without any result on the question whether Mr. Moore, claiming to have received the certificate of three out of five sheriffs of the counties comps. sing his congressional district, should be admitted to his seat, preliminary to the decision whether Mr. Letcher be entitled thereto.

[From the Norfolk Herald, of 2d inst.]

"FORTRESS MONROE, 1st DEC. 1833.
"The following is a list of officers and companies embarked on board the ships Herald and Jane, bound

to Savannah, for the Alabama expedition:
"Companies A. H. and I. of the 1st Regiment a
Artillery; B. and H. of the 3d; A. B. and C. of the

"The Regiment is commanded by Major Heile can of the 2d Artillery. His staff is composed a

Lieut. S. Dusenbury, 1st Art., Qr. Master. Liut. J. Gates, Commissary of Subsistence Lieut. J. B. Johnston, 4th Art., Adj't. Ass'st Surgeons Heiskell and Beny.

The Company Officers are-

The Company Officers are—

1st Artillery—Capt. F. Whiting,
Capt. Giles Porter,
Capt. H. W. Griswold,
First Lieutenant Fras. Taylor.
Second Lieuts. Edm'd French, Lorenze Stagreaves, and Wm. H. Pettis,
Brevet 2d Sleut David B. Harris.

2d. Artillery—Capt. Upton C. Prazer.
First Lieut. Samuel Ringgold,
First Lieut. Campbell Graham,
Second Lieut. Wm. Bryant.
Brevet 2d Lieut. Wm. Bryant.
Ath Artillery—Capt. I. H. Gardner,
Capt. P. H. Galt,
Capt. J. M. Washington,
Second Lieut. Franklin E. Hunt.
Brevet 2d Lieuts. J. L. Davis, Alex'r Shira,
and Berry Dupont.

"The Regiment is accompanied by the band of the

"The Regiment is accompanied by the band of the Artillery School of Practice. The cor nearly full and under good discipline. "At Savannah the Regiment will take The companies are

to Augusta, and from thence to Fort Mitchell, in Alabama, via Milledgeville."

We learn, says the Courier, that a letter has been eceived from our Consul at Vera Cruz, by a mer chant of this place, containing information of the te tal loss of the United States schooner Porpoise, on the Reefs off Point San Anton Lisardo, about 25 miles S. E. of Vera Cruz-all hands safe.

FEMALE SEMINARY .- The Poughkeepsie Journal records the following, which we transfer to our columns in approbation of so worthy an enterprise. Let the wealthy and patriotic in every village follow the example by similar union of efforts.

We mention with pride, as an evidence of public spirit now prevailing in our village, that the beautiful residence of Mr. John Lockwood situated on Mansion and Garden streets, was purchased a few days since by an association embracing twelve of our most active and influ ential citizens, for a FEMALE SEMINARY. grounds about the house, amounting to about five acres, are elegantly formed and covered with a variety of shade trees, shrubbery, fruits of the choicest variety, &c. &c. constituting altogether a most inviting situation. The house is already spacious, and it is contemplated to erect such additions as will afford ample and convenient accommodations for a large number of young ladies.

The association is composed of the following gentlemen: Nathaniel P. Tallmadge, George P. Oakley, Walter Cunningham, Paraclete Potter, Elias Trivett, Abraham G. Storm, Henry Conklin, Jacob Van Benthuysen, James Grank jr. Peter P. Hayes, James Bowne, and Stephes B. Trowbridge. These names are a sufficient guarantee that every thing about the establishment, the edifices, teachers, in short its entire management, will be so arranged and so con-ducted as to entitle it to a large share of the public confidence and support.

The price paid for the premises, together with another lot of about four acres, lying north of Mr. Geo. P. Oakley's residence, was twelve thousand dollars.

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Another Steamboat Disaster .- The Steamboat Mount Vernoa, on her way from Cincinnati to St. Louis, about thirty miles above the mouth of the Chie, cellapsed a flue, by which circumstance three persons were immediately killed, and a number of others scalded.

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Narrow Escape.—A letter from Milledgeville, (Geo.) under the date of the 17th inst. says—"We had a very narrow escape from fire. The roof of the State House caught about one o'clock yesterday supposed by sparks from the chimney—fortunately, it was extinguished without any very serious damage being done." The Augusta Courier remarks—"The roof of the Representatives' Chamber at Milledgeville was very much injured by fire, and the public papers, in the alarm, thrown into confusion. The Legislature speaks of adjourning in consequence for 8 or 10 days." [A negro boy named Sam, was "the principal and efficient actor" in saving the building.—
Would it not be well for the Legislature to purchase

The Cotton Crop .- We find in the North Carolina Observer 

(Same period 1832, 329,635.)	300,330
The exports from Florida	. 23,641
(d	
Exports from Alabama	. 129,366
(Same period 1832, 196.921.)	
Exports from Georgia	.271,025
(Same period 1832, 276,437.)	101 080
Exports from South Carolina	191,876
(Same period 1832, 173,872.)	
Exports from North Carolina, (of which only 517 bale	20 050
went to foreign port,)	. 30,238
(Same period 1832, 28,462.) Exports from Virginia	20 000
Exports from Virginia	1 30,020
(Same period 1832, 37,500.) Total crop of 1832-3	070 430
Total crop of 1831-3	027 477
Total crop of 1831-3	201,211
Increase	82,961
The total exports to foreign ports	
(Of which 630,245 bales were to England.)	
Ditto last year	891,728
Ditto last year	
Decrease	24,275
Consumption in the United States.	- 11

		Growth.	
Total c	rán of	1824-5560.000	bales
- 0000	do	1825 6	
	do	1826 7937,000	6-11/ Y
9	do	1828-9857,744	
	do	1829 30	
	do	1830-31	
	do	1831-32 987,478	10.
	do	1832-33	wile :

No. VI.

PITTSBURGH, November 3d.

PITTERURAM, November 3d.

I passed an evening most agreeably at Wheeling, with two or three prominent members of the Bar, who were distinguished by all that hearty courtesy, and frankness otheracters, which mark the western Virginian. A venion steak and flask of old Tuscaloosa (the relish, and flavourion of which, would have been Tocsin to the soul of Apicius and made Anacroon uneasy in his grave) gave cordiality to the meeting. It was my first introduction into western society, and I could hardy have been intiated under better auspices as I went under the wing of an Ohio gentlemany whose warm hospitality, and endearing social qualities, united as they are to distinguished professional talents, and they are to the transpose to the transpos of which, would have been Tocsin to the soul of Apicius

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den flapping of a duck's wing, as he rose suddenly from under the bow of the boat, were the only sounds abroad. The day so still, so soft, and summery, seemed like the sabbath of the

# NEW-YORK AMERICAN.

NOVEMBER 30, DECEMBER 2, 3, 4, 5, 6-1833.

LITERARY NOTICES.

THE HAND, its Mechanism and Endowments, as incing design, by SIR CHARLES BRLL, &c. &c. delphia, CARRY, LEA & BLANCHARD .- Anothe of the Bridgewater treatises-liable to the same objection which all that have preceded it have called forth-that of running into other subjects than the one which it professes to treat exclusively; yet like all the rest, though wanting in unity, full of most valuable and instructive knowledge. The eminent surgeon who in this book puts before us the stores of long experience, apologizes at the outset for the style in which it is written, on the ground that he has been always too much absorbed in the practical details of his profession, to have had much time for the cultivation of mere literature. The apology was unneces sary, for though not a model for crisics, his style is upon the whole less rugged, and more intelligible, than that of his literary and strongminded collaborator, Chalmers. The high tone of moral and religious feeling which pervades this work, shows that the selection of Sir Charles Bell for such an ellucidation of the great subject prepared by the Earl of Bridge water, was most judicious, as his manner of occasionally introducing views appropriate to his task, is ingenious. Take for instance the following extract, in which gratitude, the peculiar attribute of man, is viewed as the basis of religion:

It is this sense of gratitude which distinguishes man. In brutes, the attachment to offspring for a limited period is as strong as in him, but it ceases with the necessity for it. In man, on the contrary, the affections continue, become the sources of all the endearing relations of life, and the very bonds by

which society is connected.

If the child, upon the parent's knee, is uncon ously incurring a debt, and strong affection up se naturally that nothing is more universally con-demned than filial ingratitude, we have but to change the object of affection, to find the natural source of We must show that the care of the t tender parent is in nothing to be compared with e provisions for our enjoyment and safety, which those provis it is not only beyond the ingenuity of man to provide, but which he can hardly comprehend, while he pro fits by them.

an, of all living creatures, be alone capable gratitude, and through this sense be capable also of ligion, the transition is natural; since the gratitu

who saw him in his blood, and said, Live."

For the continuance of life, a thousand provisions re made. If the vital actions of a man's frame were eted by his will, they are necessarily so min and complicated, that they would immediately fall into confusion. He cannot draw a breath, without the exercise of sensibilities as well ordered as those of the eve or ear. A tracery of nervous cords unite nany organs in sympathy, of which, if one filament were broken, pain and spasm, and suffocation would mane. The action of his heart, and the circulation of his blood, and all the vital functions are governed through means and by laws which are not dependent on his will, and to which the powers of his mind are altogether inadequate. For had they been under the influence of his will, a doubt, a moment's pause of ir-resolution, a forgetfulness of a single action at its apted time, would have terminated his existence.

Now, when man sees that his vital operations could not be directed by reason—that they are concould not be directed by reason—that they are constant, and far too important to be exposed to all the changes incident to his mind, and that they are given up to the direction of other sources of motion than the will, he acquires a full sense of his dependence. If man be fretful and wayward, and subject to inordinate passion, we perceive the benevolent design in withdrawing the vital motions from the influence of such capricious sources of action so that they may such caprisious sources of action, so that they may neither be disturbed like his moral actions, nor lost

atoms from which materialists have sometimes maintained by the first drawing of breath, Ray, in speaking of the first drawing of breath, delivers himself very naturally: "Here methinks, aimed man might be formed, which is alike new and striking:

The bones of large animals and in great variety, are found imbedded in the surface of the earth.—
The bones of large animals and in great variety, are found imbedded in the surface of the earth.—
The bones of large animals and in great variety, are found imbedded in the surface of the earth.—
They are discovered in the beds of rivers, they are absorbed in the unpleasing reflections it suggested, when several shots, one after the other, accompanied

ald they not have rested as well as they did in the womb? What aileth them that they must "needs bestir themselves to get in air to maintain the creature's life? Why could hey not patiently saffer it to die? You will say the spirits do at this time flow to the organs of respiration, the "diaphragm, and other muscles which concur to that action and move them. But what raises the " spirits which were quiescent, &c., I am not subtle enough to discover.

We cannot call this agency, a new intelligence different from the mind, because, independently of consciousness, we can hardly so define it. But there is bestowed a sensibility, which being roused (and it is excited by the state of the circulation,) governs these muscles of respiration, and ministers to life and safety, independently of the will.

When man thus perceives, that in respect to all these vital operations he is more helpless than the infant, and that his boasted reason can neither give order nor protection, is not his insensibilit the Giver of these secret endowments worse than In a rational creature, ignorance of his condition becomes a species of ingratitude; it dulls his sense of benefits, and hardens him into a nper of mind with which it is impossible to reason, and from which no improvement can be expected.

Debased in some measure by a habit of in and lost to all sense of the benevolence of the Crea tor, he is roused to reflection only by overwhelming salamities, which appear to him magnified and disproportioned; and hence arises a conception of the Author of his being more in terror than in love.

Again in the annexed vindication of the necessity of pain:

It affords an instance of the boldness with which philosophers have questioned the ways of Providence, that they have asked—why were not all our actions performed at the suggestion of pleasure? why should be subject to pain at all? In answer to this I should say, in the first place, that consistently with our condition, our sensations and pleasures, there must be variety in the impressions; such contrast and variety are common to every variety of sense: and the continuance of an impression on any one organ, occasions it to fade. If the eye continue to look steadfastly upon one object, the image is soon lost-if we continue to look on one color, we become insensible to that color, and opposite colors to each other are necessary for an impression. So have we seen that in the sensibilities of the skin variations are necessary to continued sensation.

It is difficult to say what these philosophers would define as pleasure, but whatever exercise of the enses it should be, unless we are to suppose an entire change of our nature, its opposite is also implied. Nay, further, in this fanciful condition of existence, did anything of our present nature prevail, emotions purely of pleasure would lead to indolence, relaxation, and indifference. To what end should there be an apparatus to protect the eye, since pleasure could never move us to its exercise? Could the windpipe and the interior of the lungs be protected by a plea-surable sensation attended with the slow determina-tion of the will—instead of the rapid and powerful influence which the exquisite sensibility of the throat has upon the act of respiration, or those forcible yet regulated exertions, which nothing but the instinctive apprehension of death could exeits?

To suppose that we could be moved by the solicities.

tations of pleasure and have no experience of pain, would be to place us where injuries would mee at every step, and in every motion, and whether felt or not, would be destructive to life. To suppose that we are to move and act without experience of resistance and of pain, is to suppose not only that man's nature is changed, but the whole of exterior there must be nothing to bruise the body or hurt the eye, nothing noxious to be drawn in with the breath: in short, it is to imagine altogether another state of existence, and the philosepher would be mortified were we to put this interpretation on his meaning. Pain is the necessary contrast to pleasure : it ushers us into existence or consciousness: it alone is eapable of exciting the organs into activity: it is the companion and the guardian of human life.

In the paragraph which follows an argument is presented against that combination of fortuitous atoms from which materialists have sometimes main-

under the solid limestone rock. The bones the under the solid limestone rock. The bones the exposed, become naturally a subject of intense in terest, and are unexpectedly connected with the inquiry in which we are engaged. Among other important conclusions, they lead to this—that there is not only a scheme or system of animal structure per vading all the classes of animals which inhabit the earth, but that the principle of this great plan of cre ation was in operation, and governed the formation of those animals which existed previous to the revo lutions that the earth itself has undergone: that the excellence of form now seen in the skeleton of man, was in the scheme of animal existence long previous to the formation of man, and before the surface of the earth was prepared for him or suited to his con stitution, structure, or capacities.

In the last quotation which we have room for, from a book which we recommend, as quite intelligible to all readers, as it certainly is instructive, reference is made to the opinions (erroneous it seems they were) of President Jefferson, concerning the Megalonix:

I have alluded to the observations of President Jef. ferson on the Megalonix. Having found a bone which by its articulating surface and general form, he recognized to be one of the bones of the phalan of an animal of great size, he thought he could discover that it carried a claw; and from this cir. cumstance, he naturally enough concluded (accord. ing to the adage-ex ungue leonem) that it must have belonged to a carnivorous animal. He next set about calculating the length of the claw, and estimating the size of the animal. Hd satisfied kimself that in this bone, a relict of the ancient world, he had obtained a proof of the existence, during these old times, of a lion of the height of the largest ox, and an opponent fit to cope with the mastodon. when this bone came under the scrutiny of Baron Cuvier, his perfect knowledge of anatomy enabled him to draw a different conclusion.

He first observed that there was a spine in the middle of the articulating surface of the last bone, in this respect was unlike the form of the small bone in the feline tribe. He found no provi-sion in this specimen of an extinct animal, for the lateral attachment of the bone, which we have just noticed to be necessary for its retraction. Then ob-serving what portion of a circle this bone formed, he prolonged the line, and showed that the claw belonging to it must have been of such great length, that it could never have been retracted to the effect of guarding an acute and sharp point. The point, there-fore, could not have been raised vertically, so as to have permitted the animal to put the foot to the ground without blunting the instrument! Pursuing such a comparison, he rejected the idea of the bone belonging to the feline tribe at all. His attention was directed to another order, the paresseux er sloths, which have great toes and long nails. Their nails are folded up in a different fashion; they just enable the animal to walk; but slowly and awkwardly, some-thing in the same manner as if we were to fold our fingers on the palm of the hand, and bear upon our knuckles. On instituting a more just comparison between these bones of the ancient animal, and the correspoding bones of the paresseux, he has satisfied us, that the lion of the American President was an

animal which scratched the ground and fed on roots.

One experiences something like relief to find that there never was such an enormous carnivorous animal as this, denominated megalonix

LIGHTS AND SHADOWS OF GERMAN LIFE. 2 vols. Philad. CARRY, LEA & BLANCHARD.—Very pleasant reading, and somewhat out of the usual track. From the "Campaigns of a Man of Peace," we give a short chapter. The new soldier was just escaped from his garret as a teacher, and about to assume the duties of a pastor, when falling in with a Prussian detachment retreating before the victorious arms of Napoleon, he is suddenly converted into an Adjutant-General of an army of some 200 men :

On the third night of our march we took up our quarters at a little village, and having posted the advanced guards, we sat down—the commander inchief, the carabinier, and I, to supper, "We are, in fact," said the former, with complacency, "operating in the rear of Napoleon as I intended.
"It is all very well," replied the carabinier, drily, "provided he does not operate on our rears tomor-

I felt my flesh creep at the possibility conveyed in

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up out nder-inare, in operatdrily. tomer-

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by loud shouts of "the French! the French!—to arms!" made us start from our seats, and stand looking at one another as stiff and motionless as the candleson the table.

The drums rattled, the four trumpeters blew with all their might, and the carabinier tarned pale as death. To disgaise my terror, I stamped about the room, crying, "Hollo! fire! fire, brave Prussians—fire!" trying all the time to find the door—but I saw nothing. It was as if I had been suddenly struck blind, and in my agony I burst open the cupboard of the hostess, calling out louder and loader; "This way," brave Prussians—this way—stick close to me!"

The old woman ran screaming to protect her pro-

way, brave Prussians—this way—stick close to me?"
The old woman ran screaming to protect her property—the children shouted—the dogs barked—and a cat, on whose tail I had trodden, sprang over my head with a hideous yell, to the top of the stove.

The dia and confusion which reigned around increased my panic, and I fully believed that the French were already in the room, mercilessly butchering the women and children.

"If ever I get out of this scrape," thought I, "let who will be adjutant-general in my place?"

My outrageous proceedings, which, fortunately for me, were most honorably interpreted by the commander and the petrified carbinier, inspired them with new courage. They drew their swords, and sallied forth to the troops, who had asssembled outside the little inn. I followed, and it was with unspeakable joy that I felt myself in the dark; no eye saw me, and I might effect a retreat, which at least would prolong my life, if it did not illustrate my name. Though more disposed to be nervous at night than by day, I cannot call myself fearful; but on this occasion I was overcome with terror.

"Adjutant—forward—with twenty men to the church, ward," roored the lieutenant. "Our nost is

"Adjutant—forward—with twenty men to the church-yard! roared the lieutenant. "Our post is there attacked—if you should need succors, send to

The twenty men were soon in metion, and I, most unhappy doctor of moral philosophy, with a drawn sword at their head. "The devil's in this fellow," thought I, " has he forgotten that my hand has never wielded ought but pen, pencil or compass, that he should select me upon such a service?"

But it sufficed for him to suppose that I possessed courage; and my sense of honor inspired me for a moment, with enough of that quality to carry me to the post I was ordered to defend.

" Nunc animis opus, Ansa, nunc pectore firmo!
Degeneres animos timor arguit."

With these and similar exclamations, which were With these and similar exclamations, which were wont to inflame me with enthusiasm in my lonely garret, I endeavored to whip up my fainting spirits. But a dimness came over my sight as we advanced, which was the cause of my taking the venerable wall of the churchyard for the enemy's line, and the grass which grew upon its top, and waved to and fro in the wind; for their bayonets. I sprung to one side, and cried, with all the energy of terror: "Fire! fire!"—
The men obeyed, and the flash of their muskets afforded a distinct view of the imagined foe.

by loud shouts of "the French! the French!—to arms! troops, he only rubbed his hands, and poured forth looking at one another as stiff and motionless as the candles on the table.

The drums rattled, the four trumpeters blew with all their might, and the carabinier turned pale as death. To disguise my terror, I stamped about the sample of the shrugged his shoulders (knocked the ashes out of his pipe, and said nothing.

The drums rattled, the four trumpeters blew with all their might, and the carabinier turned pale as death. To disguise my terror, I stamped about the shrugged his shoulders (knocked the ashes out of his pipe, and said nothing.

STEPHENSON:

STEPHENSON:

STEPHENSON:

No. 264 Elizabeth street, near Bleecker street, operating in the rear of the French army!

The carabinier on the contrary, looked discomforted, he shrugged his shoulders (knocked the ashes out of his pipe, and said nothing.

Jist's

THE DOWN EASTERS, by JOHN NEAL. 2 vols. New York: HARPER & BROTHERS.—We have seen this book much praised, and we marvel at it. We have read it through—that is the volume and a half which comprize the first story: the "balaam," as Blackwood calls it, thrown in to fill out the second volume, we did not read. The design of the author is to give a faithful portraiture of the Yankee, as he was; for already he insists the ginewine native has all but ceased to exist. So far as fidelity to peculiarities of idiom and even of conduct are concerned, this may be, for aught we know, a well executed sketch-for the author is undoubtedly a quick and accurate observer of life; -but as a whole the story is incoherent, its incidents impossible, and their tendency most immoral. As for style, we take it for granted the author would consider it an affront to talk of such a thing, as whenever he means to be most effective, he sets all rules at defiance. Mr. Neal's genius—and genius he certainly has—seems incapable of a sustained effort. In brief sketches he may excel; but in the only two books of his that we have seen-that now before us, and that entitled, we believe, Authorship, and published three or four years ago—we think he fails. The Down Easters, in our judgment, is in all respects inferior to Authorship, and we knew not how its perusal is to profit any one.

ELEMENTS OF NATURAL AND EXPERIMENTAL PHI-LOSOPHY, &c. &c. by the Rev. DAVID BLAIR. Revised and enlarged, &c. by E. A. Shith. New York: McElrath, Bangs & Herbert.—This little treatise, adapted, as the American editor assures us, to the present state of science, and carefully printed and illustrated-with engravings, calculated to facilitate the progress of the learner-furnished too, according to the mode so much in vogue, with questions at the bottom of each page, to test the memory, is, we presume, as good an elementary work en general physics as is to be found.

GRACIE, PRIME & CO. having this day taken in o-partnership JOHN CLARKSON JAY, will continue their usiness under the same firm .- New-York, 1st October, 1833

RAILROAD CAR WHEELS AND BOXES, AND OTHER BAILROAD CASTINGS.

AND OTHER KAILROAD CASTINGS.

The Also. AXLES furnished and fitted to wheels complete, the Jefferson Cotton and Wool Machine Factory and Founty, Paterson, N. J. All orders addressed to the subscribers at Paterson, or 60 Wall street, New-Tork, will be promptly atended to. Also, CAR SPRINGS. dry. Paterson, tended to.

Also, Flange Tires tursed complete.

J8 ROGERS, KETCHUM & GROSVENOR.

# NOVELTY WORKS,

NOVELTY WORKS,
Near Dry Dock, Now-York.
THOMAS B. STILLMAN, Manufacturer of Steam
Engines, Boilers, Railroad and Mill Work, Lathes, Presses,
and other Machinery. Also, Dr. Nott's Fatent Tubular Boilers, which are warranted, for safety and economy, to be superior to any thing of the kind heretofore used. The feliest ascurance is given that work shall be done well, and on reasonable terms. A share of public patronage is respectfully solicited.



INSTRUMENTS.

#### SURVEYING AND NAUTICAL INSTRUMENT MANUFACTORY.

MANUFACTORY.

S. EWIN & HEARTTE, at the sign of the Quadrant,
No. 53 South street, one door north of the Union Hotel, Bahimore, beg leave to inform their friends and the public, especially Engineers, that they continue to manufacture to order
and keep for sale every description of Instrumentain the above
branches, which they can furnish at the shortest notice, and on
fair terms. Instruments repaired with care and promptitude,
For proof of the high estimation on which their Surveying
Instruments are held, they respectfully beg leave to tender to
the public perusal, the following certificates from gentlemen of
distinguished scientific attainments.

To Ewin & Heartte.—Agreeably to your request made some

the public perusal, the following certificates from gentlemen of distinguished scientific attainments.

To Ewin & Heartte.—Agreeably to your request made some months since, I now offer you my opinion of the Instruments made at your establishment, for the Baltimore and Ohio Railroad Company. This opinion would have been given at a nuch earlier period, but was intentionally delayed, in order to afford a longer time for the trial of the instruments, so that I could speak with the greater confidence of their merits, if such they should be found to possess.

It is with much pleasure I can now state that notwithstanding the Instruments in the service procured from our northern cities are considered good, I have a decided preference for those manufactured by you. Of the whole number manufactured for the Department of Construction, to wit: five Levels, and five of the Compasses, not one has required any repairs within the instruments with the construction, to which all Instruments are liable. They possess a firmness and stability, and at the same time a neatness and beauty of execution, which reflect much credit on the artists engaged in their construction.

I can with confidence recommend them as being worthy the notice of Companies engaged in Internal Improvements, who may require Instruments of superior workmanship.

Superintendent of Construction of the Baltimore and Ohio Railroad.

I have examined with care several Engineers' instruments of your Manufacture naticulars.

for their bayonets. I aprung to one side, and circle, with all the energy of terror: "Fire? If ere!"—The men obeyed, and the flash of their muskets as forded a distinct view of the imagined for "Quarter!—quarter!" circle several voices at other, and seven French light infantry soldiers crept out from under the wall, where they had lain concealed, and surrendered their arms. Had the fool remained quiet we should never have discovered them. We seem that the control of the comply Rope of any required length (without apiles) to irreduce a seven french light infantry soldiers remained to find the comply Rope of any required length (without apiles) to irreduce a seven french light infantry soldiers. Had the fool remained quiet we should never have discovered them. We seem that the comply Rope of any required length (without apiles) to irreduce a seven french light in the seven prisoners to be load quarter from the French light in the seven prisoners to be load quarter from the French light in the seven prisoners to the load quarter from the French light in the seven prisoners to the load quarter from the French light in the seven prisoners to the load quarter from the French light in the seven prisoners who may require search the seven prisoners and the seven prisoners are the light of the stable land the seven prisoners are the light of the stable land the seven prisoners are the light of the stable land the wilding of you have distinguished yourself equally by you bravery and prudence, and you may depend you be required as a prisoner of the prisoners and the prisoners and the prisoners are the first of prisoners and the protocol of the company had been ordered to take up their quarters in the willage; but on finding it unexpectedly occupied, as they believed from the uproar of our drums and trumpets, by a considerable body of Prussians, they had precipitately retreated, leaving behind then the seven prisoners, who had imprudently ventured to far a-bead of their companions.

In my joy, I regaled my prisoners with th

# METEOROLOGICAL RECORD, KEPT IN THE CITY OF NEW-YORK,

From the 19th to the 25th of November, 1833, inclusive.

Date.	Hours.	Ther- memetr.	Barome-	Winds.	Strength of Wind.	Clouds from what direction.	resoluted Weather tries ad hatig
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Average temperature of the week ending Monday, November 25, 38° .28.

# METEOROLOGICAL RECORD, KEPT AT AVOYLLE FERRY, RED RIVER, LOU.

For the month of October, 1833-(Lat. 31.10 N., Long. 91.59 W. nearly.) sicated for the American Railroad Journal and Advocate of Internal Impro

Date.	Thermometer.		ter.	Wind.	Wester Personal As				
1833.	Morn'g.	Noon.	Night.	Friad.	Weather, Remarks, &c.				
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4 14	59	76	73		cloudy—shower at night				
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u 17	63	70	61	w to NW	cloudy morning—from 10 a. m. clear and high wind				
4 35	45	59	55	·N	clear-rain at night				
H 10	47	57	56	light	cloudy				
4 96	43	49	44	high	clear				
4 91	39	50	46	White It has	—white frost light				
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4 16 4 19 4 19 4 19 19 19 19 19 19 19 19 19 19 19 19 19	33	64	54	City or differ	severeRed River at a stand				
4 3	45	67	60	Sy American	—light				

Red River is now within 11 feet of high water mark-rose this month, 13 feet 2 inches.

# MARRIAGES.

On Wodnesday, 37th inst. by the Rev. Dr. Knox, John C. Tittersen, Esq. of Ehinebeck, to Mayilda, daughter of the late WE. Faw, Esq. of this city.
On Monday evening, the 25th instant, at Christ Church, by the Rev. Benjamin Holmes, Thomas A. Taggart, Esq., to Sular W. Earin, daughter of the late Amazian Durenberry, of his city.

is city. At South Balem, Westchester county, N. Y., on the 26th in ant, Riemann M. Hon, of the house of Robert Hoe & Co., of is city, to Lucr, only daughter of Mr. Josian Gilbert, of the

### DEATHS.

On Friday evening last, Miss Maria Aurilia Anabella, eld an daughter of Euryts Prinscorr, Eng. aged 16.
Last evening, Nov. 20, of consumption, Ina Barber, a soldier of the Revolution, in the 70th year of his age.
At Alexandria, D. C., on Wednesday, the 6th inst., Robert - Tatton, in the 19th year of his age.
At Philadelphia, on Friday, the 14th instant, Alexander Eurax Wain, in the 19th year of his age.
These youths were both members of the senior class in the belief of New Jersey, and had returned in perfect health to

their respective homes to spend the fall vacation. By a remarkable providence, they were each brought to the grave by an accidental discharge from a gun. Neither was killed instantly; and for several days after their respective injuries they both appeared to be convalencent, when the symptoms of tetamus or lockjaw, appeared, and destroyed the fond hopes previously indulged with respect to their recovery. They were both distinguished for their cheerful and assiable dispositions, possessed of good talents, beloved by their fellow students, and have died "amented by numerous friends and acquaintances.

In Philadelphia, on Thursday of last week, Miss E. Roberdeau, eldest daughter of the late Col. Isaac Roberdeau, of Washington, D. C.

At Buckland, Va. at the seat of Luke Kastaret, Esq., Mirs. Catherine Shannaman, at the advanced age of 110 years. She came to Baltimore from Lancaster, Pa. when there was but three houses in that city, and resided here until the last three years. She retained the faculities of her mind until about a year ago, and her eye-sight until the last moment of her life.

On Monday morning last, at the residence of Mr. Wm. Grantham, of Jefferson county, Va. the Rev. Bekely Bunn, of the M. B. Church, in the 6th year of his age. The decease of this venerable and good man was hastened by a severe injury which heautained by being thrown from his gig on Tuesday, the 12th less.

he At Norwich, (Connecticut,) on the 37th Nevember, DANIEL L. to Corr, Esq. in the 80th year of his age.

LOCOMOTIVE ENGINES.

OF THE AMERICAN STEAM CARRIAGECOMPANY, OF PHILADELPHIA, respectfully inform the public, and es pecially Railroad and Transportation Companies, that they have become sole proprietors of certain improvements in the construction of Locomotive Engines, and other railway carriages, secured to Col. Stephen H. Long, of the United States Engineers, by letters patent from the United States, and that they are prepared to execute any orders for the construction of Locomotive Engines, Tenders, &c. with which they may be favored, and pledge themselves to a punctual compliance with any engagements they may make in reference to this line of business.

business.

They have already in their possession the requisite apparatus for the construction of three classes of engines, viz. engines weighing four, five, and six tons.

The engines made by them will be warranted to travel at the following rates of speed, viz. a six ton engine at a speed of 15 miles per hour; a five ton engine at a speed of 18 miles per hour; a four ton engine at a speed of 22 1-2 miles per hour. Their performance in other respects will be warranted to equal that of the best English engines of the same class, with respect not only to their efficiency in the conveyance of burthens, but to their durability, and the cheapness and facility of their repairs

pairs.

The engines will be adapted to the use of anthracite coal, plne wood, coke, or any other fuel hitherto used in locomotive engines.

The engines will be such that the litter to use.

The terms shall be quite as favorable, and even more moderate, than those on which ergines of the same class can be procured from abroad.

All orders for engines, &c. and other communications in reference to the subject, will be addressed to the subscriber, in the city of Philadelphia, and shall receive prompt attention.

By order of the Company,

WILLIAM NORRIS, Secretary.

For further information on this subject see No. 49, page 772 of this Journal.

# RAILWAY IRON.

17	Ninety-fiv	e tons	of I inch by		Flat Bars in lengths of 14 to 15
4	200	do.	11 do.	do.	feet counter sunk
	40	do,	14 do.	# do.	holes, enciscut at
	800	do.	2 do.	do.	an angle of 45 de-
	800	do.	21 do.		grees with spli-
× 10	W 1996	Boon ex	rpected.		cing plates, nails

250 do. of Edge Rails of 36 lbs. per yard, with the requisite chairs, keys and pins.

chairs, keys and pins.

The above will be sold free of duty, to State Governments, and Incorporated Governments, and the Drawback taken in part payment.

9 South Front street, Philadelphia.

Models and samples of all the different kinds of Rails, Chairs, Pins, Wedges, Spikes, and Splicing Plates, in use, both in this coentry and Great Britain, will be exhibited to those disposed to examine them.

#### SURVEYORS' INSTRUMENTS.

npasses of various sizes and of superior quality,

wairanted.

Leveling instruments, large and small sizes, with high magnifying powers with glasses made by Troughton, together with a large assortment of Engineering Instruments, manufactured and sold by E. & G. W. BLUNT, 154 Water street, 131 6t

ENGINEERING AND SURVEYING
INSTRUMENTS.

37 The subscriber manufactures all kinds of Instruments in his profession, warranted could, if not ruperion, in principles of construction and workmanship to any imported or manufactured in the United States; several of which are entirely near among which are an improved Compass, with a Te escope attached, by which angles can be taken with or without the use of the needle, with perfect accuracy—also, a Railroad Goniometer, with two Telescopes—and a Levelling Instrument, with a Goniometer attached, particularly adepted to Railroad purposes.

MM. J. YOUNG,
Mathematical Instrument Maker, No. 9 Dock street, Philadelphia.

The following recommendations are respectfully summitted

The following recommendations are respectfully submitted to Engineers, Surveyors, and others interested.

Baltimore, 1832.

In reply to thy inquiries respecting the instruments manufactured by thee, new in use or the Baltimore and Ohio Railroad. I cheerfully furnish thee with the following information. The whole number of Levels now in possession of the department of construction of thy make is seven. The whole number of the "Improved Compass" is eight. These are all exclusive of the number in the service of the Engineer and Grallustion Denartment. Baltimore, 1839.

clasive of the number in the service of the Engineer and Graduation Department.

Both Levels and Compasses are in good repair. They have in fact nesided but little repairs, except from acc dents to which all instruments of the kind are liable.

I have found that thy patterns for the levels and compasses have been preferred by my assistants generally, to any others in use, and the Improved Compass is superior to any other decription of Gonjometer that we have yet tried in laying the rails out in the Read.

cription of Gonjometer that we have yet tree in laying the shift Read.

This instrument, more recently improved with a reversing telescope, in place of the vane sights, leaves the engineer scarcely any thing to desire in the formation or convenience of the Compass. It is indeed the most completely adapted to later all angles of any simple and cheat instrument that I have yet seen, and I cannot but believe it will be preferred to all others now in a e for laying of rails—and in fact, when known, I think it will be as highly appreciated for common surveying.

Respectfully thy friend,

JAMES P. STABLER, Superintendant of Construction of Baltimore and Ohio Railroad.

Philadelphia, February, 1833.

Having for the last two years made constant use of Mr. Young's "Patent Improved Compass," I can safely say I be lieve it to be much superior to any other instrument of the kind, now in use, and as such most cheerfully recommend it to Engineers and Surveyors.

Germanians. E. N. Germanians.

For a year past I have used Instruments made by Mr. W.J.
Young, of thiladelphia, in which he has combined the properties of a Theodolite with the common Level.
I consider these instruments admirably calculated for layin our Railroads, and can recommend them to the notice of Engineers as preferable to any others for that purpose.

HENRY R. CAMPBELL, Eng. Philad.,
mi ty Germant, and Norrist. Railroad